



**Department of
Transportation**

I-81 VIADUCT PROJECT - PHASE 1, CONTRACT 1

PIN 3501.90, Contract D900054

DB CONTRACT DOCUMENTS REQUEST FOR PROPOSALS

PART 7

ENGINEERING DATA (PART 1 OF 5)

Draft May 17, 2022

ENGINEERING DATA

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ASBESTOS SURVEY REPORTS

Asbestos Survey Reports



BRIDGE ASBESTOS INSPECTION RESULTS

Bridge Widening and Rehabilitation

BIN 1072781

I-81 (Former I-481) SB over Totman Road

BIN 1072781

Location: I-481 SB over Totman Road

NYSDOT D031085 PIN 3501.60 - I-81 Viaduct Replacement or New Urban Arterial

City of Syracuse, Onondaga County

Bridge Asbestos Assessment Results

No asbestos containing materials have been identified on this bridge.

The following summarizes the results of the most recent asbestos survey and record plan review.

Watts Inspection Findings (December 2013)

A bridge inspection was completed on 12/11/2013 and the following suspect ACMs were identified and sampled:

- Bearing pad
- Grey masonry paint
- Grey caulk at fence on top of sidewall

None of these materials came back positive for asbestos.

Review of Bridge Record Plans

Record plans were reviewed in support of the field survey.

- Contract D250416 (dated 1982) - No suspect materials were identified in the review of this record plan set. The NYSDOT has confirmed that they do not consider Type D waterstop to be a suspect material.
- Contract D259214 (dated 2002) – No suspect materials were identified in the review of this record plan set.

Previous Survey Results

A previous asbestos survey completed by LaBella in 2001 was reviewed in support of this project. No asbestos containing materials were identified.

No additional sampling and materials testing is required for this structure.



Watts Architecture & Engineering

BRIDGE ASBESTOS FIELD INSPECTION FORM

BIN Number/Location: 1072781 (481 SB over Totman Rd)

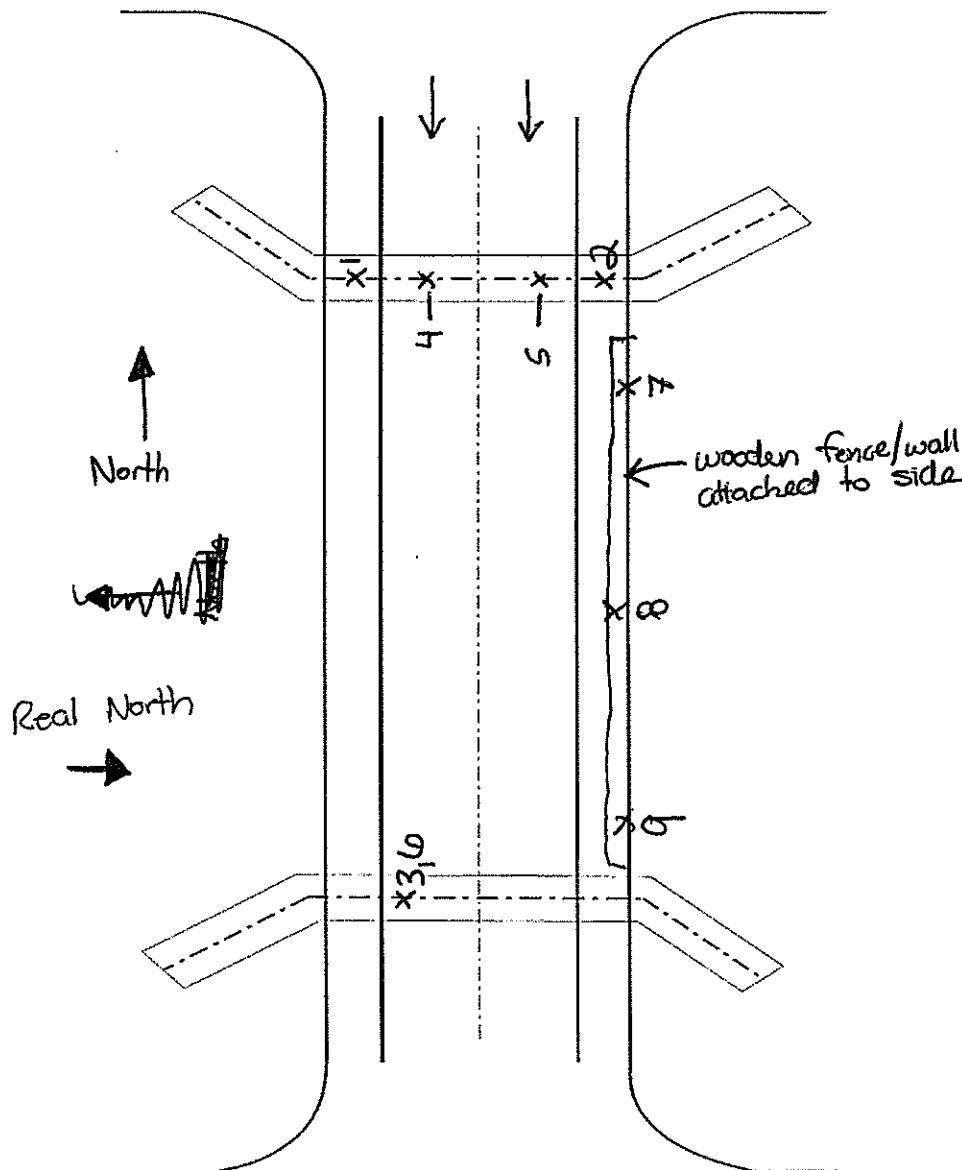
Project Name: : I-81 Viaduct Replacement or New Urban Arterial

Inspector(s): William Koch

Inspection Date: 12/11/13

PIN Number: PIN: 3501.60, D031085

Watts Project No: 13092



Field Inspection Checklist				
Item	Investigated	Present	Sampled	
Girder Paint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Truss Paint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Abutment Coating	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4-6
Abutment Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Abut. Exp. Jt. Filler	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Headwall Sheet Packing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bearing Pad	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1-3
Transite Pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pipe Coating/Wtr. Proof	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Scupper Wtr. Proof	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dum Dum Paint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Deck Caulk along fence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7-9
Deck Exp. Jt. Filler	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Approach Sheet Packing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Railing Paint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Railing Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sidewalk Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lighting Pole Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Masonry Castings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Miscellaneous Tar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Utilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

SAMPLE LOCATION PLAN VIEW - N.T.S.

Notes: • No exp. caulk
• Grey masonry caulk
• Bearing pads sampled
• No girder paint found

**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>buffalolab@emsl.com

EMSL Order: 141400415

CustomerID: WATT50A

CustomerPO:

ProjectID:

Attn: **Scott Matthews**
Watts Architecture & Engineering
2610 Salina Street
Syracuse, NY 13205

Phone: (315) 443-8611
 Fax: (315) 443-8605
 Received: 02/04/14 10:00 AM
 Analysis Date: 2/9/2014
 Collected: 12/11/2013

Project: 13092 - 181 Viaduct Replacement or New Urban Arterial Bin 1072781 - 481 S.B. Over Totman Rd

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1072781-1 141400415-0001		Description bearing pad Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Brown /Red			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Brown /Red			None Detected
Sample ID 1072781-2 141400415-0002		Description bearing pad Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Brown /Red			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Brown /Red			None Detected
Sample ID 1072781-3 141400415-0003		Description bearing pad Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Brown /Red			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Brown /Red			None Detected
Sample ID 1072781-4 141400415-0004		Description grey masonry paint Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Gray			None Detected
Sample ID 1072781-5 141400415-0005		Description grey masonry paint Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Gray			None Detected

**EMSL Analytical, Inc.**

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Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>buffalolab@emsl.com

EMSL Order: 141400415

CustomerID: WATT50A

CustomerPO:

ProjectID:

Test Report: Asbestos Analysis of Bulk Material

Non Asbestos									
Test		Color		Fibrous		Non-Fibrous		Asbestos	
Sample ID	1072781-6 141400415-0006	Description	grey masonry paint						
		Homogeneity	Homogeneous						
PLM NYS 198.1 Friable									Not Analyzed
PLM NYS 198.6 VCM									Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray						Inconclusive: None Detected	
TEM NYS 198.4 NOB	2/9/2014	Gray						None Detected	
Sample ID	1072781-7 141400415-0007	Description	grey caulk at fence on top of sidewall						
		Homogeneity	Homogeneous						
PLM NYS 198.1 Friable									Not Analyzed
PLM NYS 198.6 VCM									Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray						Inconclusive: None Detected	
TEM NYS 198.4 NOB	2/9/2014	Gray						None Detected	
Sample ID	1072781-8 141400415-0008	Description	grey caulk at fence on top of sidewall						
		Homogeneity	Homogeneous						
PLM NYS 198.1 Friable									Not Analyzed
PLM NYS 198.6 VCM									Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray						Inconclusive: None Detected	
TEM NYS 198.4 NOB	2/9/2014	Gray						None Detected	
Sample ID	1072781-9 141400415-0009	Description	grey caulk at fence on top of sidewall						
		Homogeneity	Homogeneous						
PLM NYS 198.1 Friable									Not Analyzed
PLM NYS 198.6 VCM									Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray						Inconclusive: None Detected	
TEM NYS 198.4 NOB	2/9/2014	Gray						None Detected	

Analyst(s)

Rachel Giese

Rhonda McGee

Rhonda McGee, Laboratory Manager
or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.

All samples examined for the presence of vermiculite when analyzed via NYS 198.1.

-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606

WATTS ARCHITECTURE & ENGINEERING, P.C.
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

141400415

Page: 1 of 1

Date: 12/11/13

Client: C&S / DOT

Project: I81 Viaduct Replacement or New Urban Arterial

Building / Location: BIN 1072781 (481 S.B. over ~~Thompson~~ ^{Totman} Rd)

Contact: Scott Matthews at (315) 443-8611

Email Preliminary Results to: smatthews@watts-ae.com

Mail Invoice to: Accounts Payable
Watts Architecture & Engineering, P.C.
95 Perry Street, Buffalo, NY 14203

Mail Report to: Scott Matthews
Watts Architecture & Engineering, P.C.
2610 S Salina Street, Syracuse, NY 13210

Watts Project No.: 13092

Turnaround Requested: 3 Hr. 48 Hr.

Analysis Requested: 6 Hr. 72 Hr.

PLM X TEM X 12 Hr. X 5 Day 1 week

24 Hr. 6-10 Day

Sample Number	Material Description	Sample Location	Laboratory Results	
			PLM	TEM
1072781 - 1	Bearing Pad	East end S. end abutment		
2	" "	East end S. end abutment		
3	" "	West end N. end abutment		
4	Grey masonry paint	East end S. end abutment		
5	" "	East end S. end abutment		
6	" "	West end N. end abutment		
7	Grey caulk on fence on top of sidewalk	W. side (outer lane) at S. end		
8	" "	W. side (outer lane) middle		
9	" "	W. side (outer lane) N. end		

Sampled By: Scott Matthews / Will Kuck *J. Matthews* Date: 2-7-14 Received By: *RECEIVED* FEB 04 2014 Date: _____

Relinquished By: Scott Matthews to FedEx Date: 2-7-14 Received By: *BY: KLM* 10g FedEx Date: _____

Comments: _____

BIN 1072781 Inspection Photos

I-81 (Former I-481) SB over Totman Road

Photo 1



Photo 2

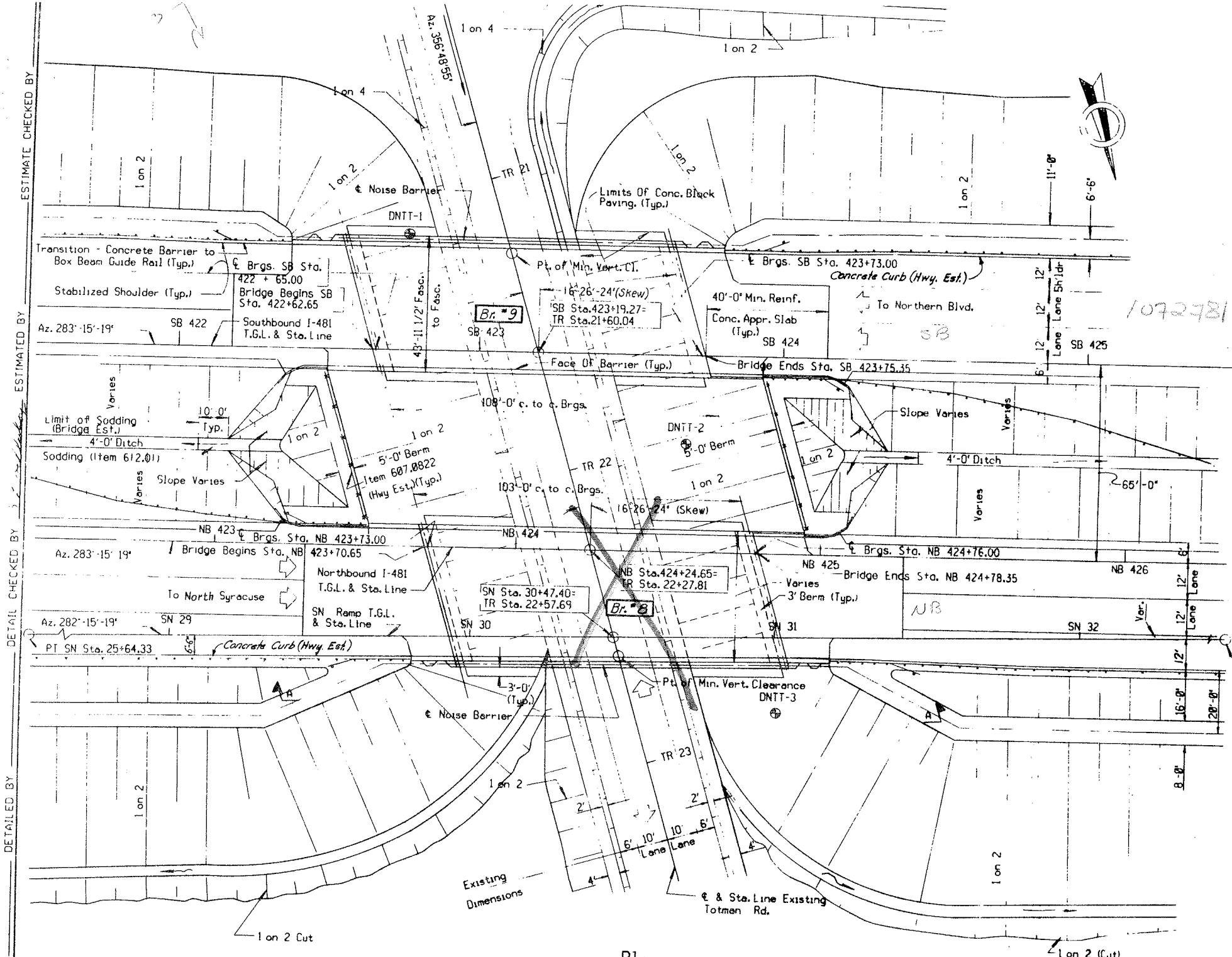


Photo 3



Photo 4





Plan
Scale: 1"=20'-0"

LOAD RATINGS

	LOADING	INVENTORY	OPERATING
BRIDGE NO. 8	HS	HS 23 (41 T) W.S.	HS 43 (78 T) W.S.
BRIDGE NO. 9	HS	HS 23 (41 T) W.S.	HS 44 (80T) W.S.

481 SB

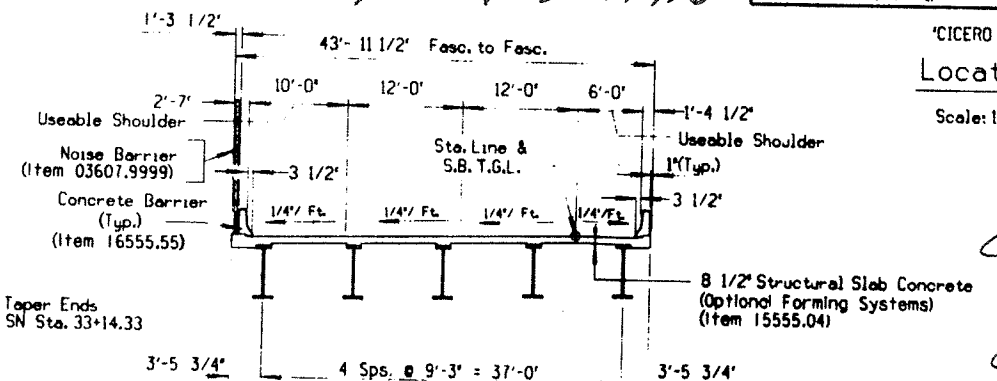
Record plans were reviewed on 3/12/14 by GA. The following suspect material was identified:
Type D waterstop - pages 3 and 7

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOT. SHEETS
	NEW YORK	1-481-2(154) 18-87-2(154)	242	380

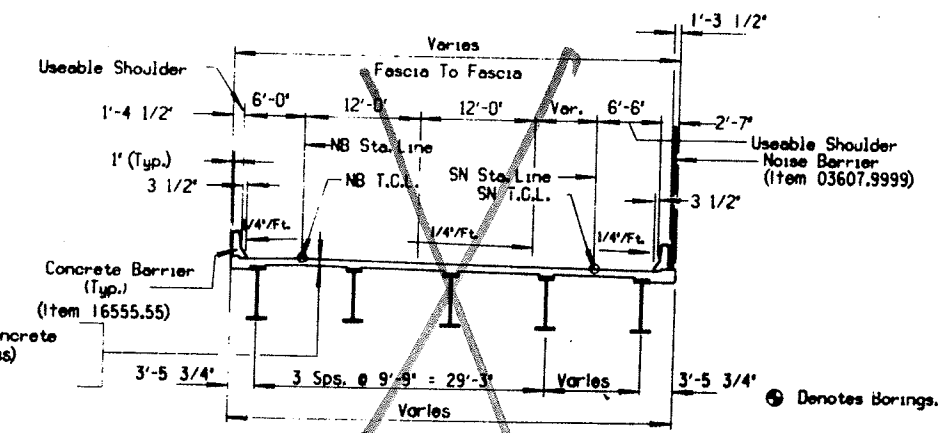
INTERSTATE RTE. 570 EXTENSION (I-481)
NORTHERN BLVD. TO BEAR ROAD INTERCHANGE
ORONOGA COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 3107.00

'CICERO QUADRANGLE'
Location Map
Scale: 1"=2000'



Typical Bridge Section
Southbound I-481 (Bridge #9)
B.I.N. 1072781
Scale: 1"=10'-0"



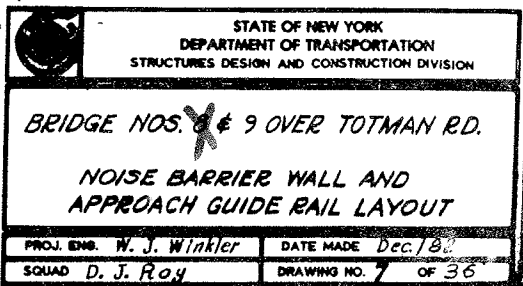
Typical Bridge Section
Northbound I-481 (Bridge #8)
B.I.N. 1072782
Scale: 1"=10'-0"

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

Bridges 8 & 9-N.B. & S.B.
Over Totman Rd.

PROJ. ENG. W.J. WINKLER	DATE Dec./02
SQUAD D.J. ROY	DRAWING NO. 1 OF 30

Spalcha 3/10
Winkler 6/10/04
Winkler 6/29/06
Winkler 5/15/08
RJR
5/11/10
DJHann 5/15

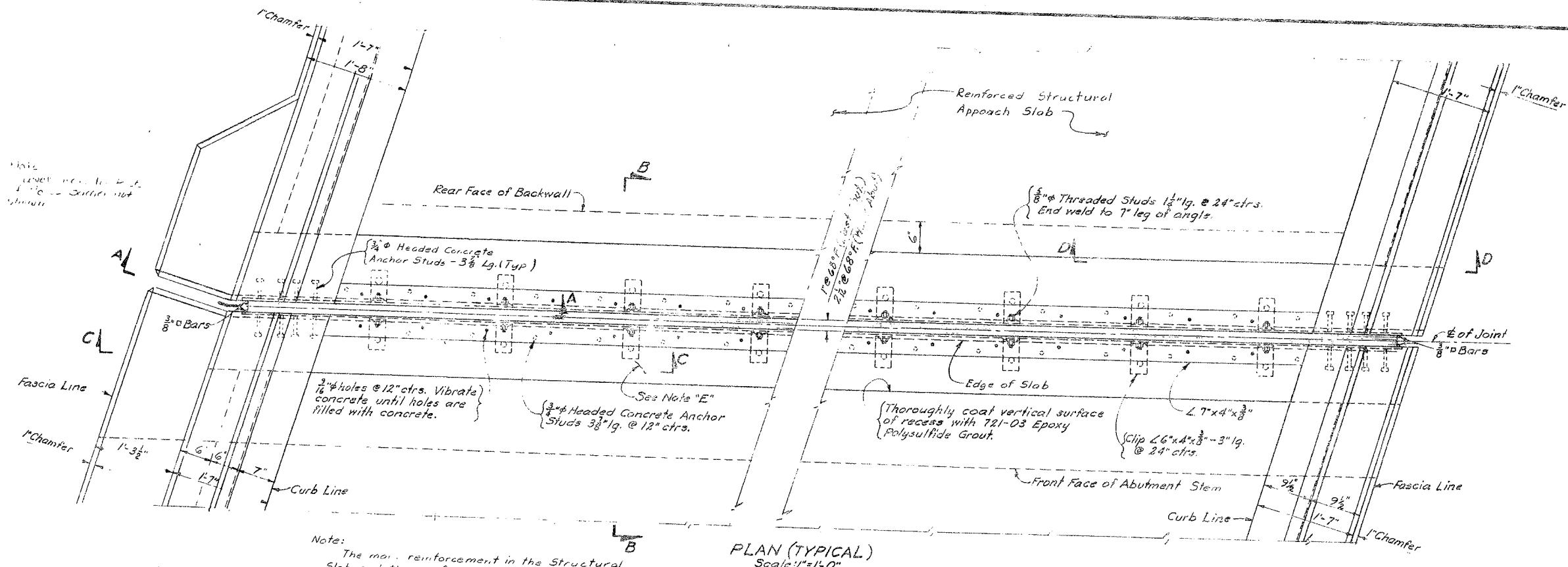


Notes:

1. For details of Transition - Concrete Barrier to Box Beam Guide Rail see Dwg. No. 13 of Common Structure Details. For details of Noise Barrier Wall see Dwg. No. 16 of Common Structure Details.
2. The area under Posts for Noise Barrier to be level as similarly shown in "Noise Barrier Support Details" on Dwg. No. 15.

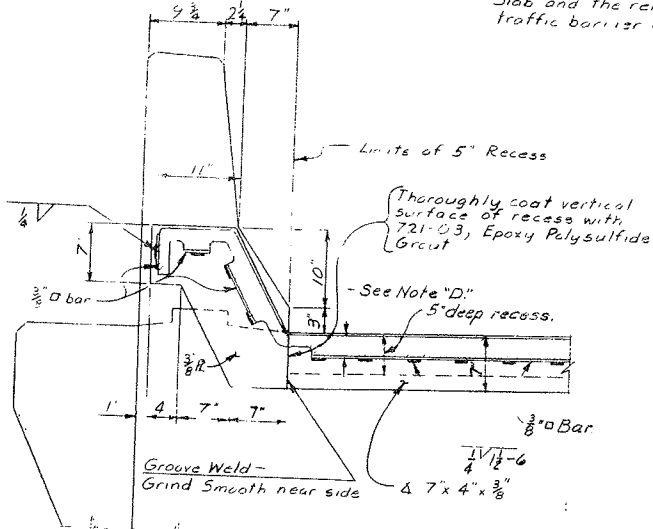
NOISE BARRIER WALL & GUIDE RAIL LAYOUT
Scale 1" = 10'-0"

JOINT TABLE		
BRIDGE No.	LOCATION	ITEM No.
8	East Abut.	Item No. 567.31
	West Abut.	Item No. 567.35
9	East Abut.	Item No. 567.31
	West Abut.	Item No. 567.35

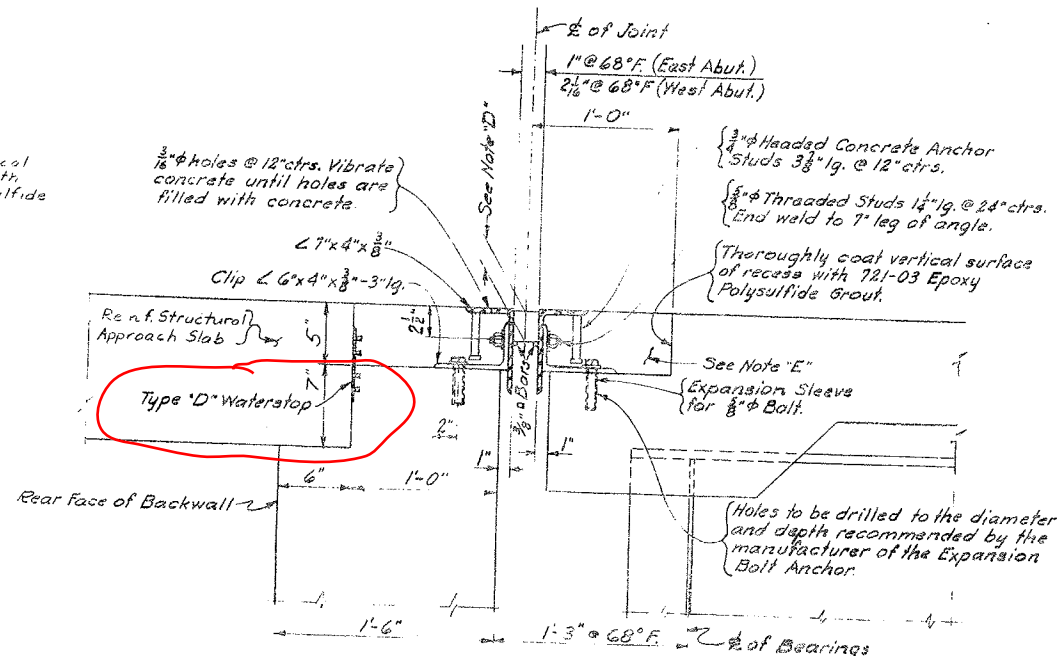


PLAN (TYPICAL)
Scale: 1"=1'-0"

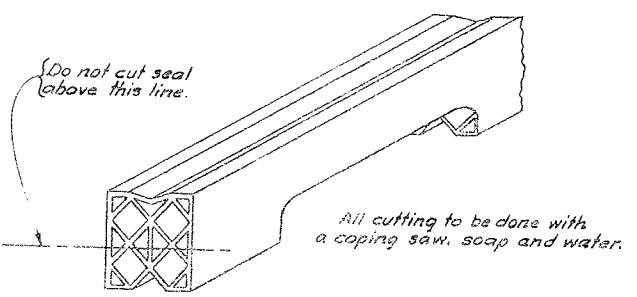
Note: The main reinforcement in the Structural Slab and the reinforcement in the fascia and traffic barrier are not shown on these details.



SECTION A-A
Scale: 1" = 1'-0"



SECTION B-B
Scale: $1\frac{1}{2}" = 1'-0"$

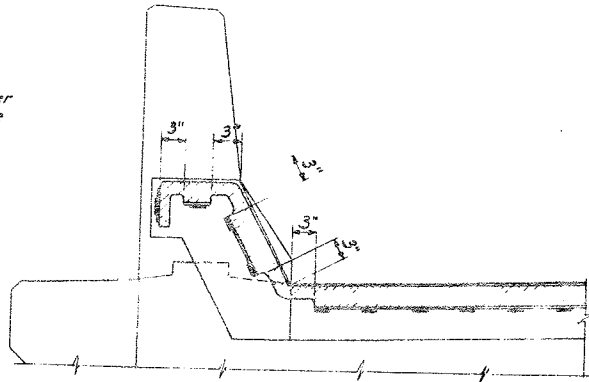


Note "D"
This depth shall be indicated on the shop and shall be such that when the seal is compressed 50 % of its normal width the top of the seal is not less than $\frac{1}{4}$ " nor more than $\frac{3}{4}$ " below the top of roadway.

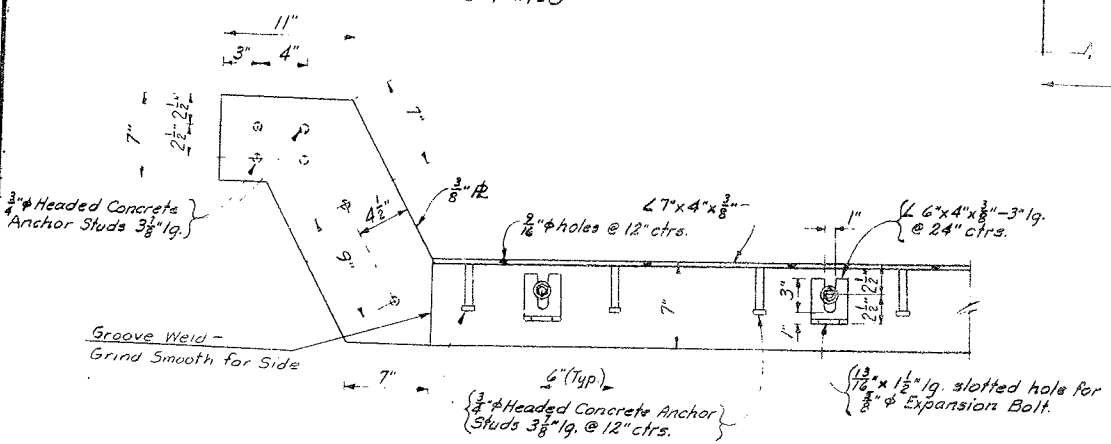
Note "E"
Concrete in recesses on superstructure prior to installing the Armored Joint System shall comply with the Specifications for the structural slab, except that machine finishing will not be required. No additional payment will be made for furnishing and placing this concrete as this quantity lies within the limits of the area to be paid for in the item.

It is desirable to have the Armored Joint Compression Seal assembled in the shop delivered to the job site ready for installation in the preformed recess in the structural slab. In cases where the Armored Joint cannot be assembled in the shop, due to its excessive weight causing shipping problems, the joint shall be sealed with the Compression Seal before the structure is opened to traffic, including construction traffic, and before discontinuing operations is suspended during the Winter.

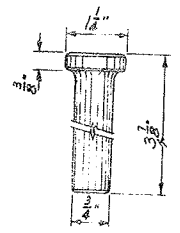
The cost of furnishing and placing the L Polysulfide Grout shall be included in the unit bid for the slab item.



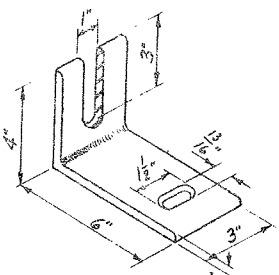
DETAIL FOR CUTTING AND BENDING SEAL
Not to Scale



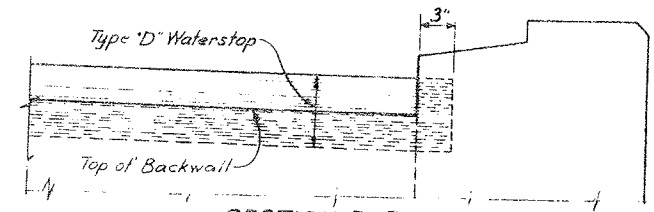
SECTION C-C
(STEEL ONLY SHOWN)
Scale: $1/2" = 1'-0"$



DETAIL OF HEADED CONCRETE
ANCHOR STUD
Not to Scale

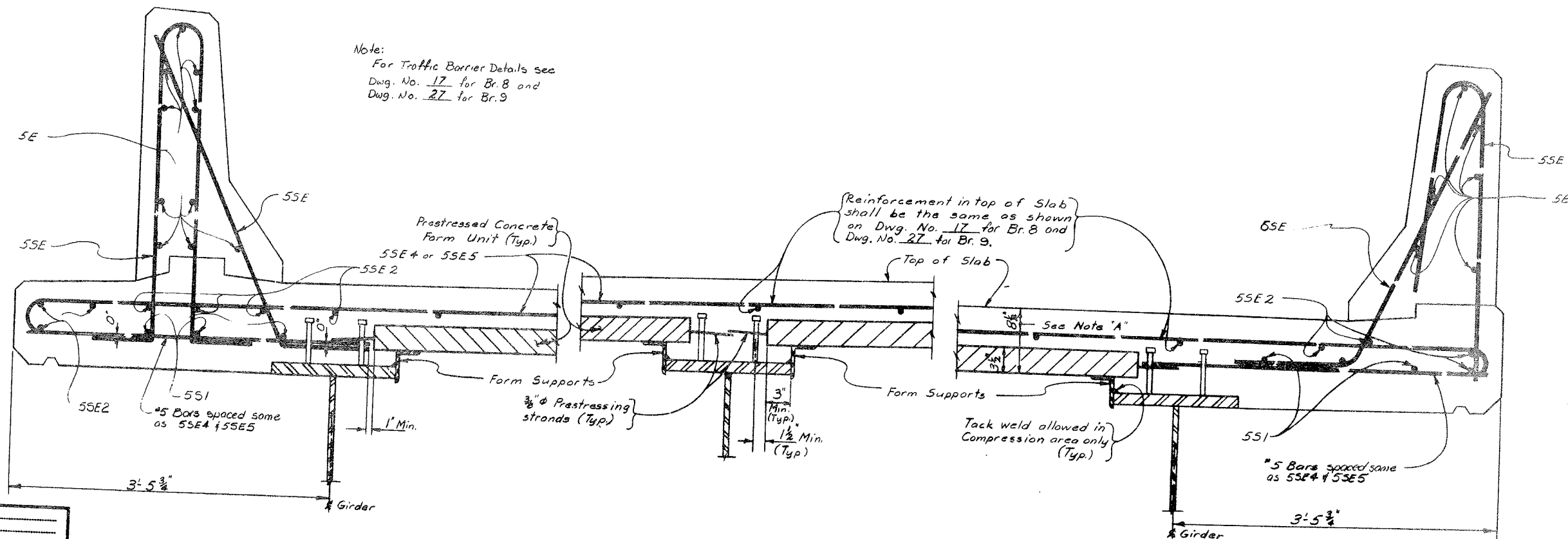
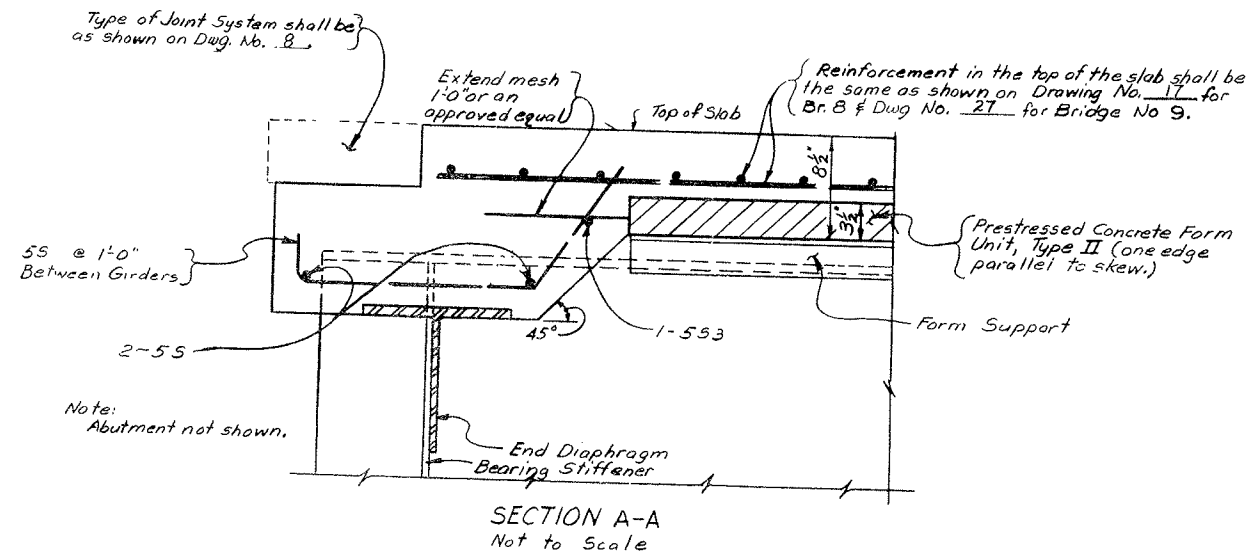
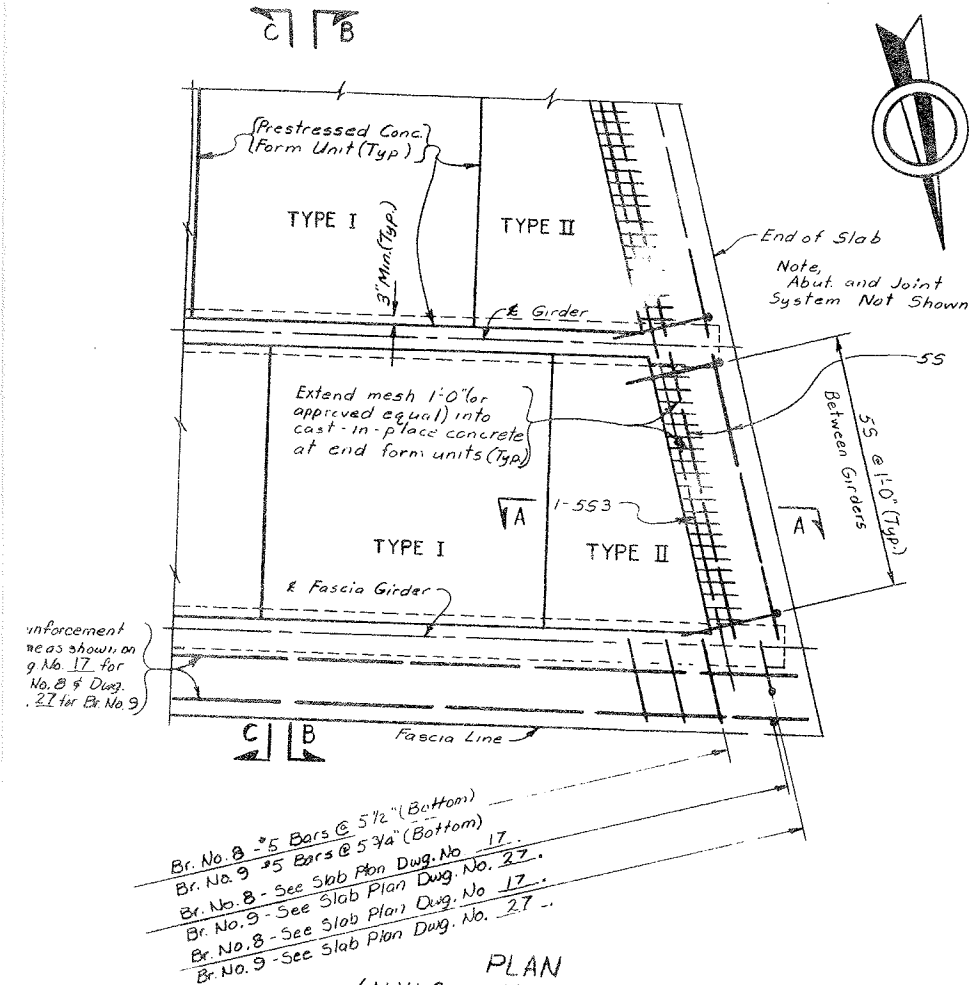


DETAIL OF CLIP ANGLE
Not to Scale



SECTION D-D
Not to Scale

FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	1-481-2-154	250	380
INTERSTATE RTE. 570 EXTENSION (I-481) NORTHERN BLVD. TO BEAR ROAD INTERCHANGE ONONDAGA COUNTY				
CAPITAL PROJECT IDENTIFICATION NO. 3107.00				



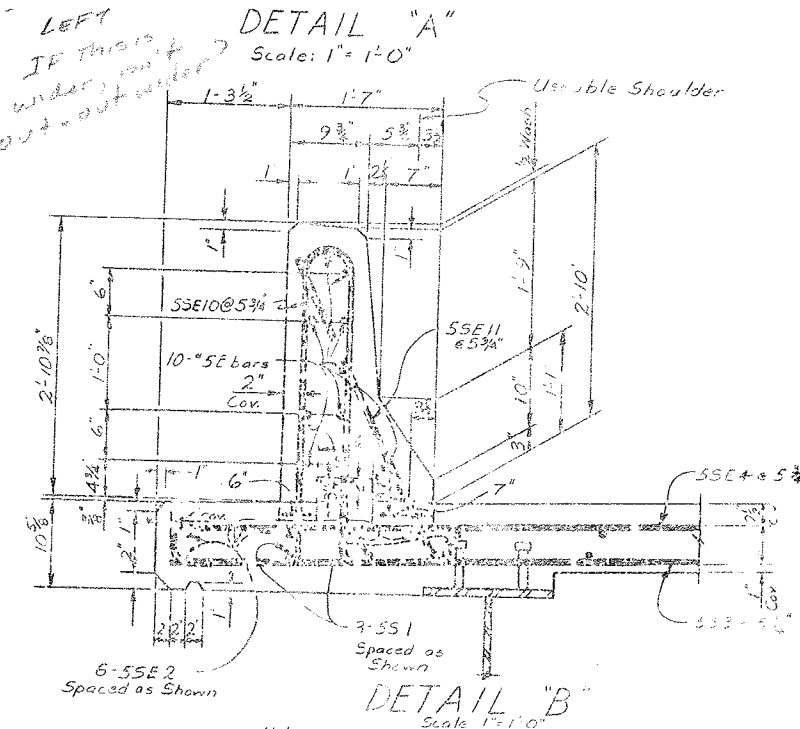
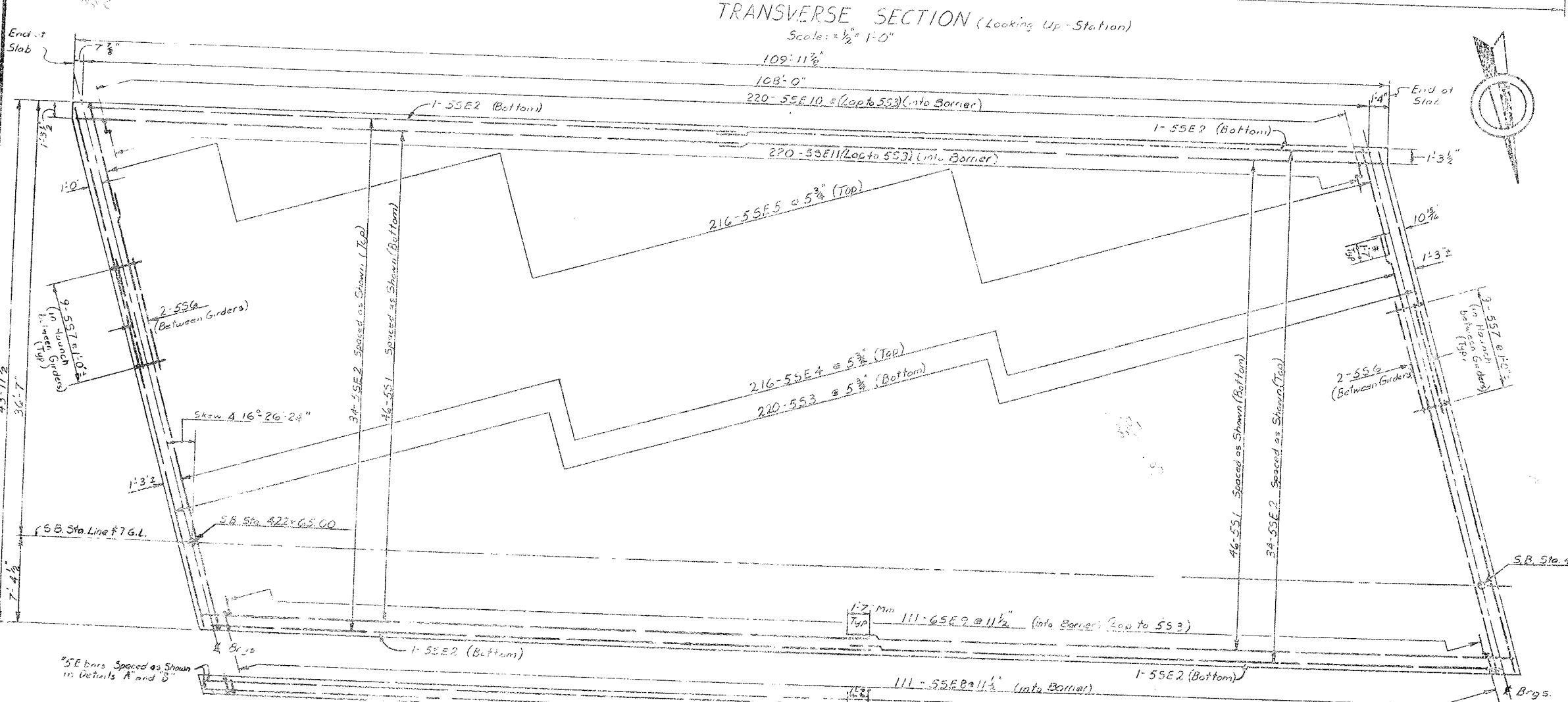
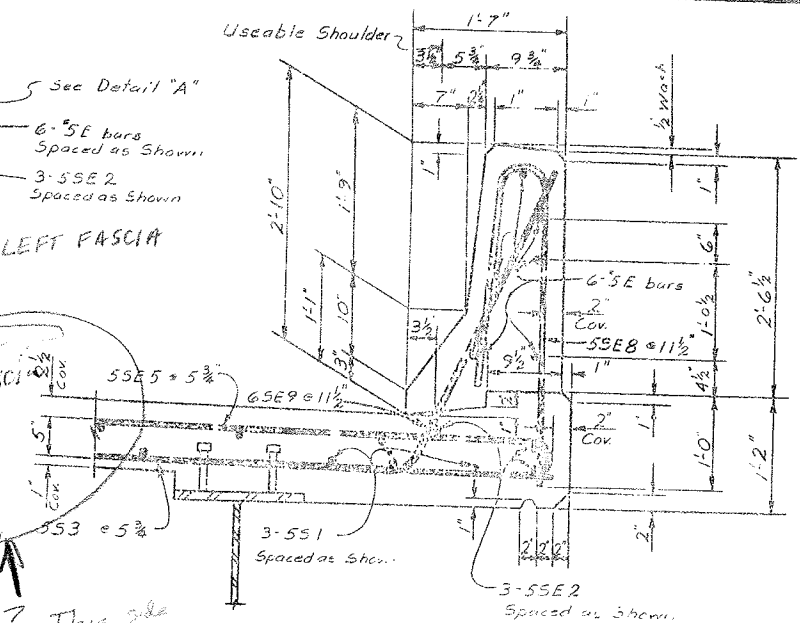
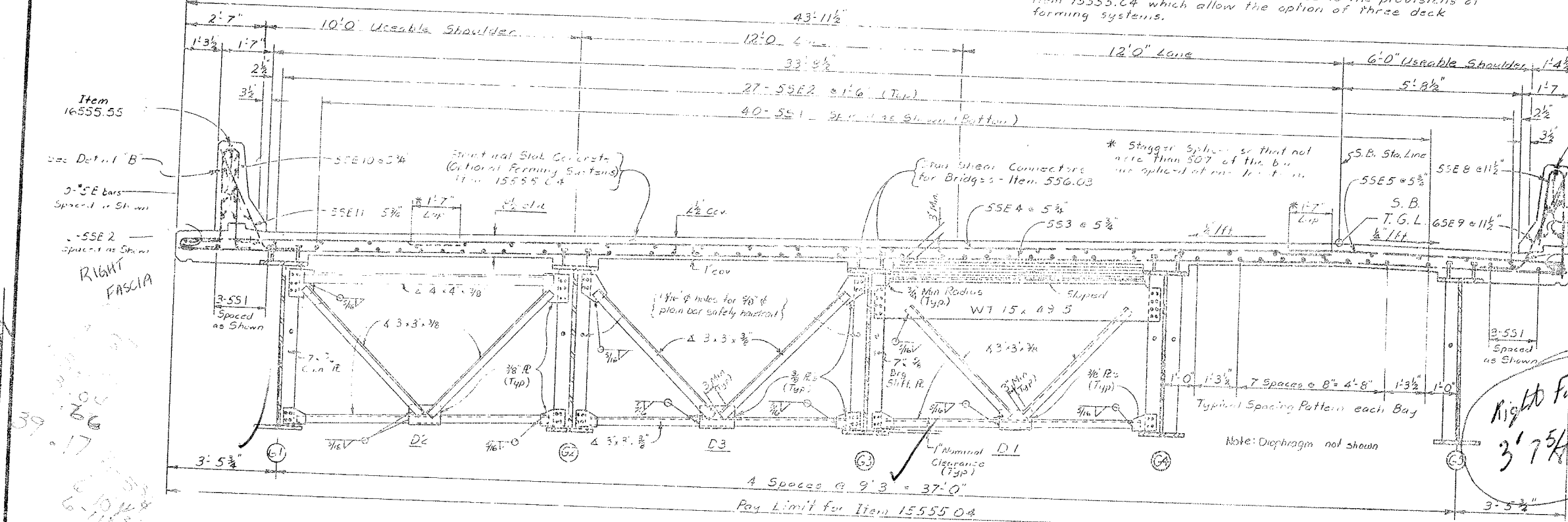
- Notes:
- The bottom of the Prestressed Concrete Form Unit shall be parallel to and 8 1/2" below the finished top of the slab; except when the cross-slope of the slab changes between the girders. In this case, the Prestressed Concrete Form Unit shall be set so the bottom is 8 1/2" below the top of the slab at each edge of the girder line.
 - For details of Prestressed Concrete Form Units see Dwg. No. 10.
 - No welding of form supports to the top flange in tension zone is allowed.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION
BRIDGE NOS. 8 & 9 OVER TOTMAN RD.
PRESTRESSED CONCRETE FORM UNITS
LAYOUT

noise barrier wall shall be installed along the south side of this bridge. For Location of Wall see Dwg. No. 7.

Deck Forming System Notes:
The Contractor's attention is directed to the provisions of Item 15555.04 which allow the option of three deck forming systems.

PROJECT NO.	STATE	SECTION NO.	DATE	TOTAL SHEETS
16555.55	NEW YORK	16555.55	268	380
INTERSTATE Rte. 20 KATONAH (1-491) NORTHERN BLVD. TO NEAR ROAD INTERCHANGE ONONDAGA COUNTY				
CAPITAL PROJECT IDENTIFICATION NO. 3107.00				



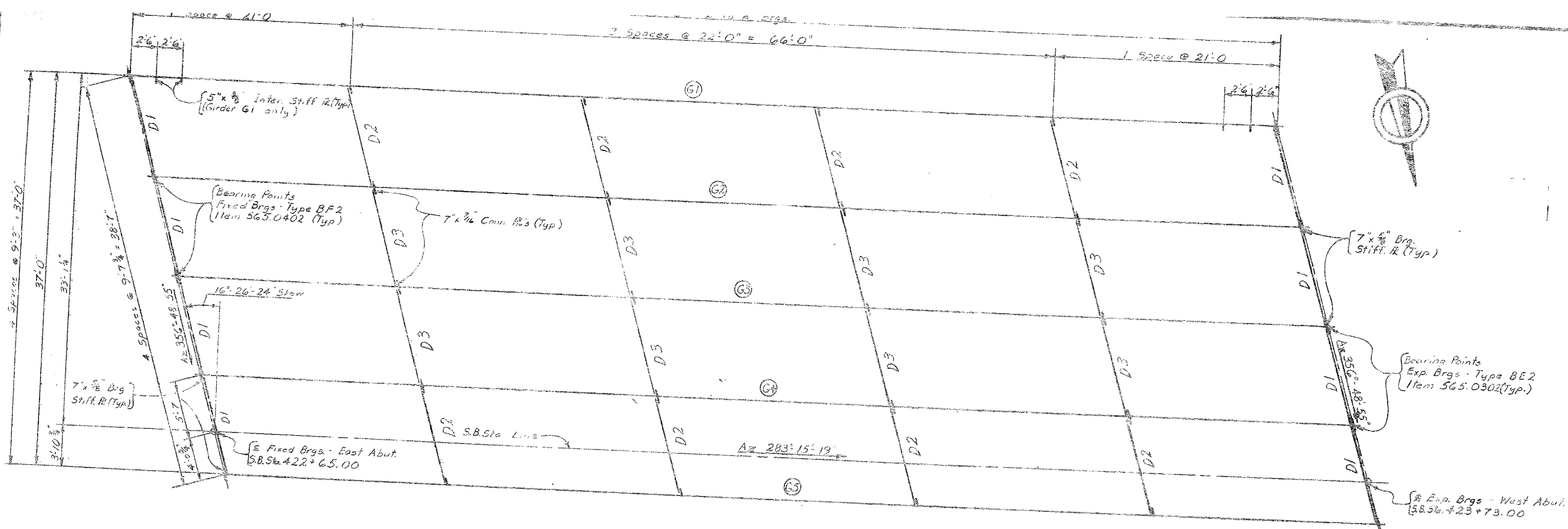
Notes:
For Safety Hurdle Details see Dwg. No. 5.
For Common Structure Details see Dwg. No. 22.
For End of Slab Hurdle Detail, Traffic Barrier Chamber Detail and Concrete Table see Dwg. No. 22.
For Location of Diaphragms see Dwg. No. 23.
For Girder Details see Dwg. No. 23.
For Diaphragm Notes see Dwg. No. 23.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
STRUCTURES DIVISION AND CONSTRUCTION DIVISION

BRIDGE NO. 9 OVER TOTIAN RD.

TRANSVERSE SECTION AND SLAB LAYOUT

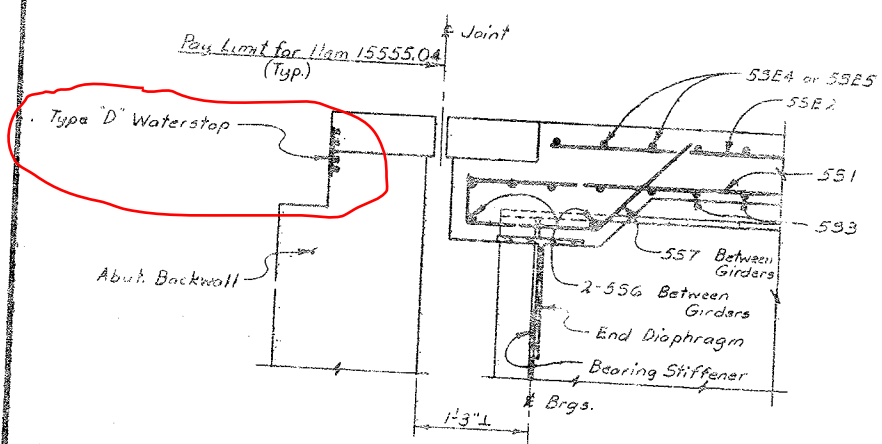
17881-33



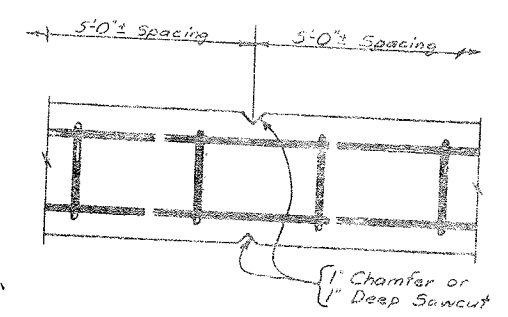
FRAMING PLAN
Scale: $\frac{3}{16}'' = 1'-0''$

NOTES FOR DIAPHRAGM DETAILS

- Where holes are indicated, connections shall be $\frac{7}{8}''$ diameter high-strength bolts.
- Cross frames may be fabricated to fit the girders in their erected position and cambered shape, but deflected vertically under the load of the steel work only.
- The Contractor may place diaphragms on either side of the bearing stiffeners or stiffener connection plates as necessary to correct alignment provided there will be no interference with other structural details.
- Snipe the outstanding leg of all angles and plates 1" minimum.
- Tapered or flat shim plates may be used in the connection between skewed diaphragms and the bearing stiffeners or stiffener connection plates. Variable thicknesses of shim plates may be used. The minimum thickness of shim plate shall be $\frac{1}{8}''$ with a maximum number of shim plates permitted at any connection. The total thickness of all shim plates used at any connection shall not exceed 1". Shim plate shall have the dimension of the facing surface. The shim material shall conform to ASTM Designation A36, except that on unpainted structures, the shim material shall conform to ASTM Designation A588. No additional payment will be made for furnishing and placing the shim plates.



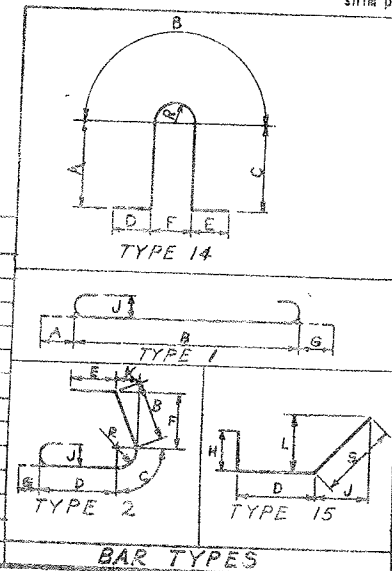
END OF SLAB HAUNCH DETAIL
Scale: $1'' = 1'-0''$



TRAFFIC BARRIER CHAMFER DETAIL
Not to Scale

CONCRETE TABLE		
LOCATION	Struct. Slab Cont. Item 15555.04	Traffic Barrier Item 15555.55
Struct. Slab	4848 SF.	—
No. Traffic Barrier	—	111 L.F.
So. Traffic Barrier	—	111 L.F.

STRUCTURAL SLAB REINFORCEMENT																
MARK	SIZE	No.	TYPE	LENGTH	A	B	C	D	E	F	G	H	J	K	L	R
55E1	5	92	Str.	55-8												
55E2	5	72	Str.	52-7												
55E3	5	220	Str.	45-6												
55E4	5	216	1	88-7	0-7	38-0										
55E5	5	216	1	9-8	0-7	9-1										
55E6	5	16	Str.	7-11												
55E7	5	72	15	2-8					1-2							
55E8	5	111	2	6-0		2-2	0-9	3-1	0	0-3	0	0-4	0-10	0-10		1-2
55E9	5	111	18	4-9					1-3					0-2	0-3	
55E10	5	220	18	8-9	3-4	0-9	3-4	0-8	0-8	0-5			0	1-4	3-2	3-6
55E11	5	220	15	4-6					1-0				0	1-4	3-2	3-6

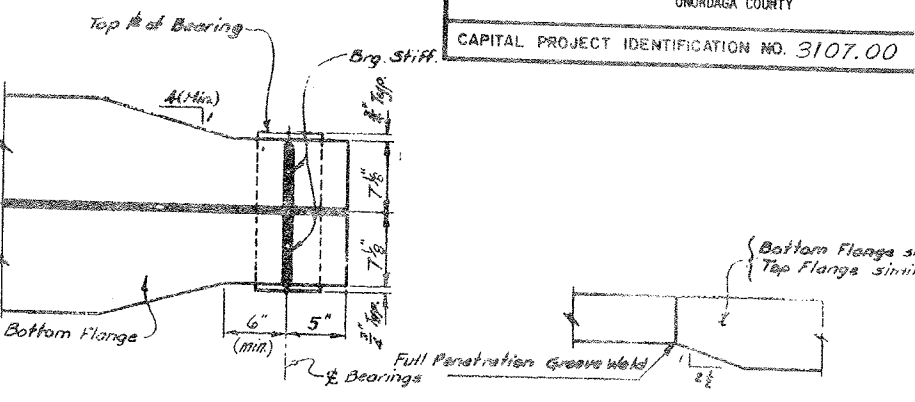


Notes, For Girder Details see Dwg. No. 29.
For details of diaphragms D1, D2 and Transverse Section on Dwg. No. 27.
For Bearing Details see Dwg. No. 3.
Common Structure Details.

DATE: 10/1/56
PROJECT: BRIDGE NO. 9
IN CHARGE OF: R. L. Bellamy
CHECKED BY: J. P. Bellamy
DESIGNED BY: J. P. Bellamy
APPROVED BY: J. P. Bellamy

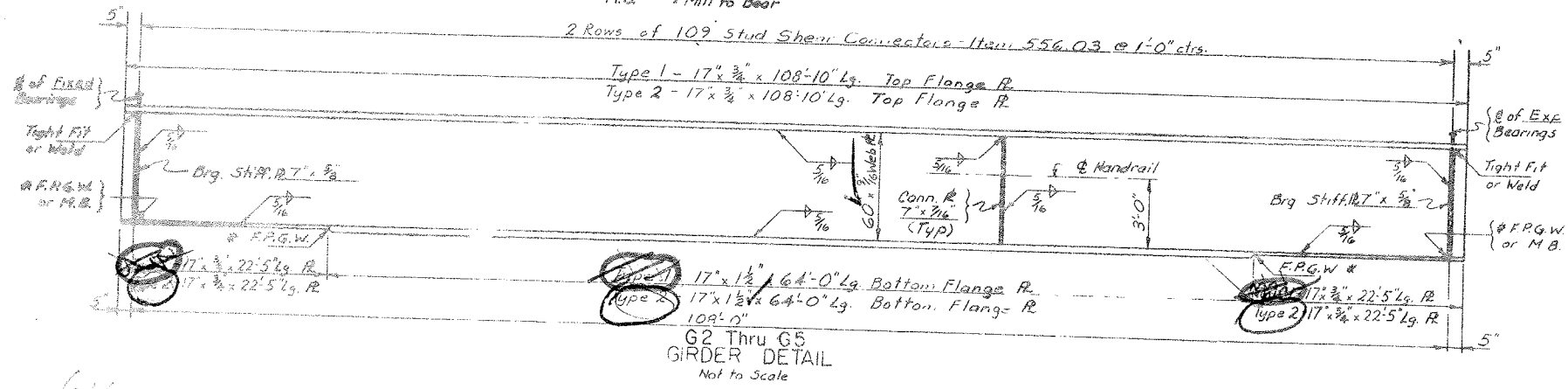
FED. RD. DIST. NO.	STATE	FEDERAL AID DISTRICT NO.	SHEET NO.
NEW YORK	NEW YORK	1R-81-2(154)	270
INTERSTATE RTE. 570 EXTENSION (I-481) NORTHERN BLVD. TO BEAR ROAD INTERCHANGE ONONDAGA COUNTY			
CAPITAL PROJECT IDENTIFICATION NO. 3107.00			

MOMENT & SHEAR TABLE			
		CL BRG	MID PT
G1	D.L.	Moment	1932 K'
	S.D.L.	Moment	910 K'
	L.L. (+)	Moment	1484 K'
		Shear	58.5 K
G2 Thru G5	D.L.	Moment	2089 K'
	S.D.L.	Moment	522 K'
	L.L. (+)	Moment	1703 K'
		Shear	67.2 K



BOTTOM FLANGE TAPER
Not to Scale

FLANGE THICKNESS TAPER
Not to Scale

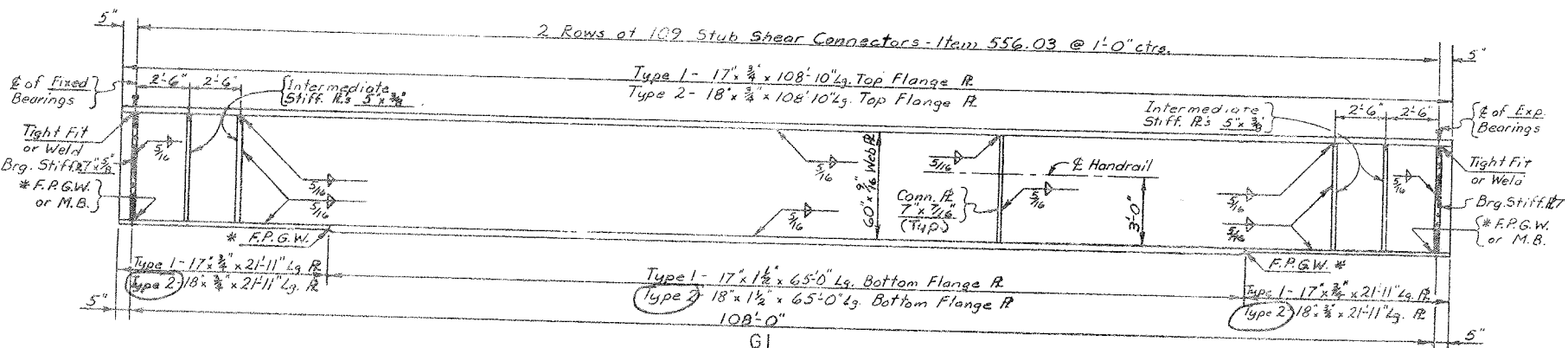


G2 Thru G5
GIRDER DETAIL
Not to Scale

DESIGN LOAD TABLE / GIRDER		
UNIT	LOAD/FT	
Slab & Haunch	0.985 K/FT	1.023 K/FT
Girder	0.253 K/FT	0.245 K/FT
SIP Forms	0.062 K/FT	0.125 K/FT
Diaphragms	0.025 K/FT	0.040 K/FT
Traffic Barriers	0.200 K/FT	0.200 K/FT
Future W.S.	0.158 K/FT	0.158 K/FT
Noise Barrier	0.266 K/FT	—

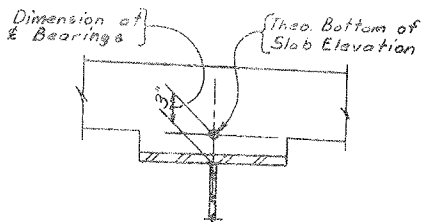
Assumed Live Load = H520-44

Type 1 forms are removable or integral prestressed concrete.
Type 2 forms are permanent corrugated metal.



G1
GIRDER DETAIL
Not to Scale

TYPE 2 ON RT FASCIA ONLY
(NOISE WALL FASCIA)
WAY CROSSED OFF?
SEEMS RIGHT.



GIRDER HAUNCH
DETAIL
Scale: 1" = 1'-0"

CAMBER NOTES

- The camber labeled "Vertical Curve" in the table is the camber required to follow the vertical curve.
- The camber labeled "Steel D.L." in the table is the camber required to offset the deflection due to the dead load weight of the girder as fabricated.
- The camber labeled "Concrete D.L." in the table is the camber required to offset the deflection due to the dead load weight of the concrete slab.
- The camber labeled "Superimposed D.L." in the table is the camber required to offset the deflection due to the weight of the traffic barrier, noise barrier and future wearing surface.
- The total camber is the sum of vertical curve, steel dead load, concrete dead load and superimposed dead load. All camber offsets are measured vertically to the top of web from a straight reference line drawn from the intersection of top of web and centerline of bearing at one end of the girder to the corresponding point at the other end of the girder.
- Positive numbers in the table are above the straight reference line.
- Negative numbers in the table are below the straight reference line.
- The camber offsets are tabulated in decimals of a foot.

Note:

D.L. = Dead Load
S.D.L. = Superimposed Dead Load
L.L. = Live Load
Live Load moments and shears include impact
Moments are expressed as Foot Kips.
Shears are expressed as Kips.
The ends of all girders and the bearing stiffeners shall be vertical. All connection plates and intermediate stiffeners may be perpendicular to the top flange.
For Stud Shear Connector, Drip Bars, Bottom Flange Taper, and Safety Handrail Details see Dwg 5 of Common Structure Details.
Drip Bars shall be used on the east end of the fascia girders.

HAUNCH TABLE

	CL BRG	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	CL BRG
G1	(A) Read bottom of slab elev.	423.07	423.11	423.15	423.19	423.22	423.25	423.28	423.30	423.32	423.35
	(B) Top of steel elev. (field meas.)										
	(C) = (A) - (B)										
	(D) Conc. + S.D.L. Deflection	0.00	0.11	0.20	0.26	0.29	0.31	0.29	0.26	0.20	0.00
	(E) Depth of haunch = (C) + (D) ft.										
G2	(A) Read bottom of slab elev.	423.28	423.32	423.36	423.39	423.42	423.45	423.48	423.50	423.51	423.54
	(B) Top of steel elev. (field meas.)										
	(C) = (A) - (B)										
	(D) Conc. + S.D.L. Deflection	0.00	0.10	0.18	0.24	0.27	0.29	0.27	0.24	0.18	0.00
	(E) Depth of haunch = (C) + (D) ft.										
G3	(A) Read bottom of slab elev.	423.48	423.52	423.56	423.59	423.62	423.65	423.67	423.69	423.71	423.74
	(B) Top of steel elev. (field meas.)										
	(C) = (A) - (B)										
	(D) Conc. + S.D.L. Deflection	0.00	0.10	0.18	0.24	0.27	0.29	0.27	0.24	0.18	0.00
	(E) Depth of haunch = (C) + (D) ft.										
G4	(A) Read bottom of slab elev.	423.68	423.72	423.76	423.79	423.82	423.85	423.87	423.89	423.91	423.93
	(B) Top of steel elev. (field meas.)										
	(C) = (A) - (B)										
	(D) Conc. + S.D.L. Deflection	0.00	0.10	0.18	0.24	0.27	0.29	0.27	0.24	0.18	0.00
	(E) Depth of haunch = (C) + (D) ft.										
G5	(A) Read bottom of slab elev.	423.72	423.76	423.80	423.83	423.86	423.89	423.91	423.93	423.94	423.96
	(B) Top of steel elev. (field meas.)										
	(C) = (A) - (B)										
	(D) Conc. + S.D.L. Deflection	0.00	0.10	0.18	0.24	0.27	0.29	0.27	0.24	0.18	0.00
	(E) Depth of haunch = (C) + (D) ft.										

CAMBER TABLE (FT.)

	CL BRG	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	CL BRG
G1	(1) Steel D.L.	0.000	0.020	0.035	0.046	0.053	0.055	0.053	0.046	0.035	0.020
	(2) Conc. D.L.	0.000	0.082	0.147	0.192	0.220	0.229	0.220	0.192	0.147	0.082
	(3) S.D.L.	0.000	0.027	0.049	0.064	0.073	0.076	0.073	0.064	0.049	0.027
	(4) Vertical Curve	0.000	0.015	0.027	0.035	0.040	0.042	0.040	0.035	0.027	0.015
	Total (1)+(2)+(3)+(4)	0.000	0.144	0.258	0.337	0.386	0.402	0.386	0.337	0.258	0.144
G2	(1) Steel D.L.	0.000	0.020	0.035	0.046	0.053	0.055	0.053	0.046	0.035	0.020
	(2) Conc. D.L.	0.000	0.086	0.153	0.201	0.229	0.239	0.229	0.201	0.153	0.086
	(3) S.D.L.	0.000	0.017	0.029	0.039	0.044	0.046	0.044	0.039	0.029	0.017
	(4) Vertical Curve	0.000	0.015	0.027	0.035	0.040	0.042	0.040	0.035	0.027	0.015
	Total (1)+(2)+(3)+(4)	0.000	0.158	0.244	0.321	0.366	0.382	0.366	0.321	0.244	0.158

All Structural Steel shall conform to A.S.T.M. A588 unless otherwise noted

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
BUREAU OF CONSTRUCTION

BRIDGE NO. 9 OVER TOTMAN RD.

GIRDER DETAILS

3/3 1072781



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)
VARIOUS BRIDGES ON INTERSTATE 481
TOWNS OF DEWITT AND CICERO

VOLUME 1 OF 2

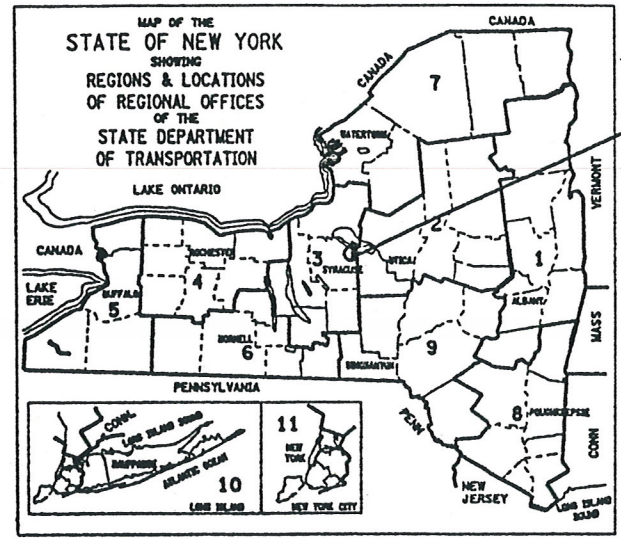
432 SHEETS ONONDAGA COUNTY CONTRACT D259214

F.A. PROJECT

STANDARD SHEETS

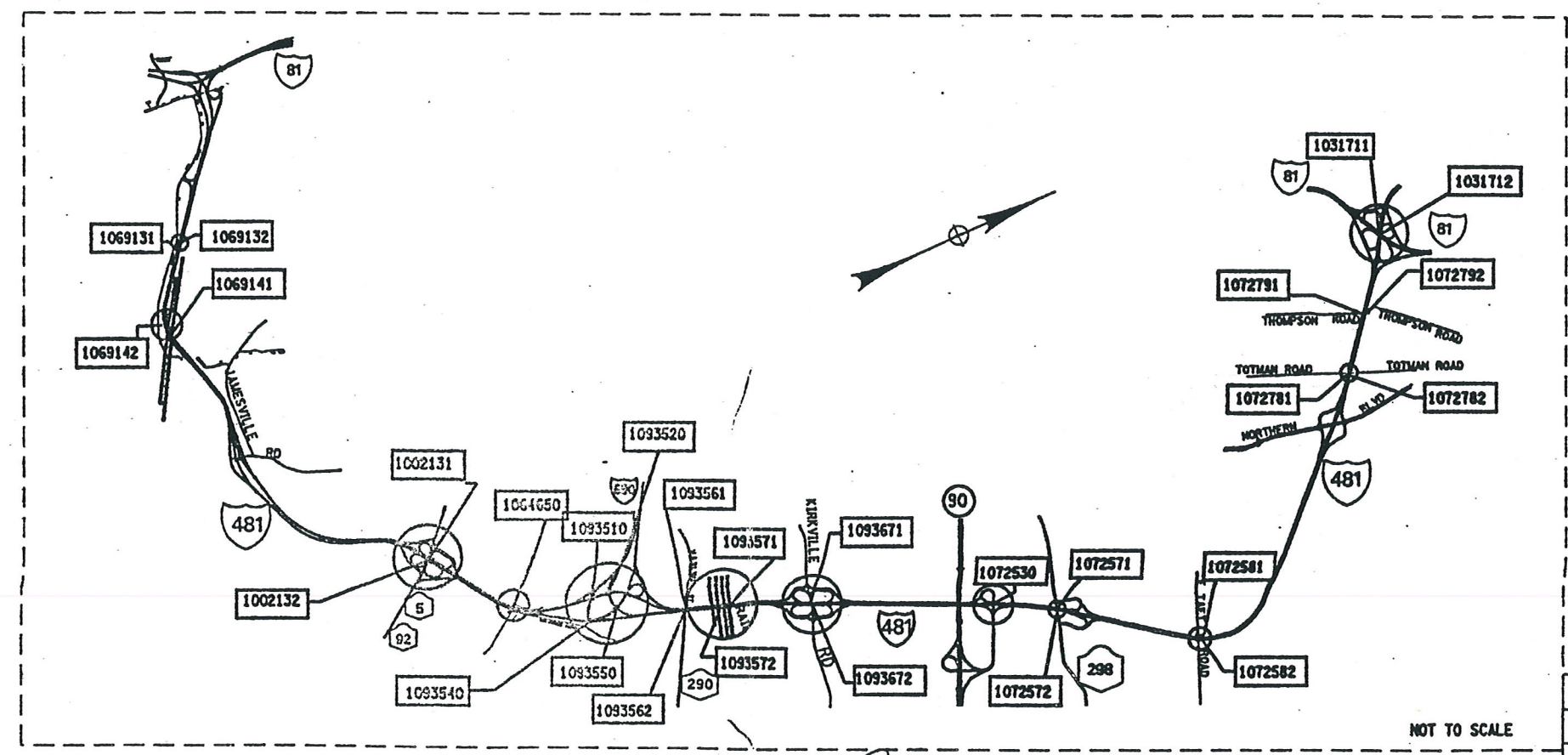
M203-4, M203-5, M203-6R1, M603-1
M606-32, M606-33, M606-34,
M619-3R1, M619-4, M619-5
M685-1, M685-2R1, M685-3R1
M685-4R1, M685-5R1, M403-1, M203-4,
M203-5, M203-6R1, M603-1

Record plans were reviewed on
3/12/14 by GA. No suspect
materials were identified.
However, there was reference to
ACM being removed as part of
the rehabilitation - page 7.



THIS IS A BRIDGE REHABILITATION PROJECT ON VARIOUS
BRIDGES ON INTERSTATE 481, LOCATED IN THE TOWNS OF
CICERO AND DEWITT IN ONONDAGA COUNTY. THIS WORK
CONSISTS OF BRIDGE JOINTS, BEARINGS, BRIDGE RAIL AND
CONCRETE REPAIR OF SUBSTRUCTURES. THERE ARE
28 BRIDGES IN THE PROJECT BEGINNING AT REFERENCE MARKER
4811-3301-1000 SOUTH OF THE CITY OF SYRACUSE AND
ENDING AT REFERENCE MARKER 4811-3301-2143.
1481 INTERCHANGE NORTH OF THE CITY.

CONTRACTOR'S NAME _____
AWARD DATE _____
COMPLETION DATE _____
FINAL ACCEPTANCE DATE _____
REGIONAL DIRECTOR _____
ENGINEER IN CHARGE _____
FINAL COST TOTAL _____
FISCAL SHARE COST(S)



BRIDGE REHAB. PROJ.- ELEMENT SPECIFIC			
VARIOUS BRIDGES ON INTERSTATE 481			
TOWNS OF DEWITT AND CICERO			
ONONDAGA COUNTY			
FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	N.Y.	1	432
FEDERAL AID PROJECT NO.			
CAPITAL PROJECT IDENTIFICATION NO. 3056.13			
INDEX ON SHEET NO. 5 & 6			

RECOMMENDED BY *John E. Fritzsche* 9/04/02 REGIONAL DESIGN ENGINEER
RECOMMENDED BY *Murray A. Dineen* 9/14/02 REGIONAL CONSTRUCTION ENGINEER
RECOMMENDED BY *Carl R. Rupp* 9/04/02 REGIONAL TRANSPORTATION MAINTENANCE ENGINEER
RECOMMENDED BY *Benjamin* 9-4-02 REGIONAL TRAFFIC ENGINEER
APPROVED BY *William S. [Signature]* 09-04-02 REGIONAL DIRECTOR

DESIGNED BY *John E. Fritzsche* CHECKED BY *John E. Fritzsche* ESTIMATED BY *John E. Fritzsche* DRAFTED BY *John E. Fritzsche* CHECKED BY *John E. Fritzsche*

CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

DATE

DESIGN SCALE

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156	CROSSOVER TYPICAL SECTION	CTS-1
157-160	CROSSOVER SURVEY CONTROL DATA	HC-1 - HC-4
161-166	CROSSOVER PLANS	CPL-1 - CPL-6
167-174	CROSSOVER PROFILES	CPR-1 - CPR-8
175-177	CROSSOVER MISC. DETAILS	CMD-1 - CMD-3
178-179	CROSSOVER MISC. TABLES	CMT-1 - CMT-2
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203	BIN 1002131, BOLSTER DETAILS	PR1-4
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220-221	BIN 1002132, PIERS (NB)	PR2-1 & PR2-2
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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	5	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N.305613		B.J.N. ALL BINS		

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481
REHABILITATION PROJECT

INDEX

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AA.L2A	3	10/02	IDX-1

CHECKED BY: UNKAP TEU DT
ESTIMATED BY: UNKAP TEU DT
UNREVIEWED BY: UNKAP TEU DT

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401-402	BIN 1072582, JOINT DETAILS	JD-37 + JD-38
403-404	BIN 1072781, JOINT DETAILS	JD-39 + JD-40
405-406	BIN 1072782, JOINT DETAILS	JD-41 + JD-42
407-408	BIN 1072792, JOINT DETAILS	JD-43 + JD-44
409-410	BIN 1093510, JOINT DETAILS	JD-45 + JD-46
411	BIN 1072791, BIN 1093520 & BIN 1093540, JOINT DETAILS	JD-47
412-413	BIN 1093550, JOINT DETAILS	JD-48 + JD-49
414-416	BIN 1093561 & BIN 1093562, JOINT DETAILS	JD-50 - JD-52
417-420	BIN 1093571 & BIN 1093572, JOINT DETAILS	JD-53 - JD-56
421-423	BIN 1093671 & BIN 1093672, JOINT DETAILS	JF-57 - JD-59

INDEX (CONTINUED)		
SHEET NO.	DESCRIPTION	DRAWING NO.
424	VARIOUS BRIDGES - ROAD PLATE DETAIL	AA - RP1
	BAR LIST	
425-428	ALL BINS (BRIDGE JOINT SYSTEMS)	BL-1 - BL-4
429	BIN 1002131 & 1002132	BL-5
430	BIN 1093571	BL-6
431	STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS	MS-1
432	MISC. TABLE	MT-1

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	6	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGE ON INTERSTATE 481				
TOWN OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. VARIOUS		
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED				
AS BUILT REVISIONS				
SIGNATURE		DATE		
INTERSTATE 481 REHABILITATION PROJECT				
INDEX				
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION				
FILENAME 305613AA.L2A	REGION 3	DATE 10/02	DRAWING NO. IDX-2	

CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

ESTIMATE OF QUANTITIES BY STRUCTURE

ITEM #	DESCRIPTION	UNIT	1072781		1072782		1072791		1072792		1093510		1093520		1093540	
			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
203.02 M	UNCLASSIFIED EXCAVATION & DISPOSAL	CM	2				2									
203.03 M	EMBANKMENT IN PLACE	CM														
203.07 M	SELECT GRANULAR FILL	CM														
203.1770 M	CLEAN EXISTING PIPE CULVERT	M														
203.18 M	CLEANING CLOSED DRAINAGE SYSTEMS	M														
203.19 M	CLEAN DRAINAGE STRUCTURES AND MANHOLES	EA														
203.21 M	SELECT STRUCTURE FILL	CM														
15203.51 M	GRADING, CLEANING AND RESHAPING EXISTING DITCHES	M														
206.01 M	STRUCTURE EXCAVATION	CM														
206.02 M	TRENCH AND CULVERT EXCAVATION	CM														
207.10 M	GEOTEXTILE BEDDING	SM														
210.5433 M	REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING CAULKING (BY 12)	LS														
210.9913 M	REMOVAL AND DISPOSAL OF MISC. ASBESTOS CONTAINING MATERIAL BY-12	LS											NEC			
304.15 M	SUBBASE COURSE, OPTIONAL TYPE	CM														
402.128201 M	12.5mm F2 SUPERPAVE HMA, 80 SERIES COMPACTION	MT	3				3				3					
402.128211 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.128201M	QU	1				1				1					
402.258901 M	25mm F9 SUPERPAVE HMA, 80 SERIES COMPACTION	MT									4					
402.258911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.258901M	QU									1					
402.378901 M	37.5mm, F9 SUPERPAVE HMA, 80 SERIES COMPACTION	MT														
402.378911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.378901M	QU														
407.01 M	TACK COAT	L	5				5				9					
490.30 M	MISC. COLD MILLING OF BITUMINUS CONCRETE	SM									25					
502.92 M	SEALING TRANSVERSE JOINTS	M											21		21	
08520.5014 M	SAWCUT, ASPH, CONC/ASPH, OVERLAY- PCC PAVE	M	74				48				17					
552.13 M	TEMPORARY STEEL SHEETING	SM														
555.0105 M	CONCRETE FOR STRUCTURES - CLASS A	CM	1													
555.09 M	CONCRETE FOR STRUCTURES, CLASS HP	CM	3		1				1		1					
18555.81 M	STRUCTURAL CRACK SEALING	LM	6													
556.0201 M	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	KG														
556.0202 M	EPOXY COATED REBAR FOR STRUCTURES	KG	70		72				71		52					
558.01 M	TRANSVERSE SAWCUT GROOVING OF STR SLAB SURF	SM	18				17									
18559.1696 M	PROTECTIVE SEALER STRUCTURAL CONCRETE	SM														
18559.1896 M	PROT SEAL STR. CONC. - NEW BRIDGE DECK OVERLAYS	SM														
564.0501 M	STRUCTURAL STEEL	LS														
565.1522 M	TYPE M.R. EXPANSION BEARING (1001 TO 2000 KN)	EA														
565.1722 M	TYPE M.R. FIXED BEARING (1001 TO 2000 KN)	EA														
15565.4302 M	BRIDGE BEARING RESTORATION	EA	10				10		10							
566.01 M	MODULAR EXPANSION JOINT SYSTEM, ONE-CELL	M														
566.02 M	MODULAR EXPANSION JOINT SYSTEM TWO-CELL	M														
567.31 M	ARM JNT SYS W/ COMPRESSION SEAL - TY A1	M	13		13				14							
567.32 M	ARM JNT SYS W/ COMPRESSION SEAL - TY A2	M														
567.35 M	ARM JNT SYS W/ COMPRESSION SEAL - TY A5	M	13		13				14							
567.36 M	ARM JNT SYS W/ COMPRESSION SEAL - TY A6	M														
18567.46 M	ELASTOMERIC CONCRETE FOR BRIDGE JOINT SYSTEMS	M			26				26							
16567.640001 M	REPLACE COMPRESSION SEAL IN EXISTING BRIDGE JOINTS	M					28				18		10		10	
568.32 M	CEMENT MORTAR PADS	EA														
568.50 M	STEEL BRIDGE RAILING (2 RAIL)	M														
570.090001 M	ENVIRONMENTAL GROUND PROTECTION	LS														
570.090002 M	ENVIRONMENTAL GROUND PROTECTION	LS														
570.090003 M	ENVIRONMENTAL GROUND PROTECTION	LS														

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	186	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE DATE

SHEET 7 OF 12
ESTIMATE OF QUANTITIES



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME 305613.L1A	REGION 3	DATE 10/02	DRAWING NO. QE-3A
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11

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	187	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. VARIOUS		

ESTIMATE OF QUANTITIES BY STRUCTURE																
ITEM #	DESCRIPTION	UNIT	1072781		1072782		1072791		1072792		1093510		1093520		1093540	
			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
570.090004 M	ENVIRONMENTAL GROUND PROTECTION	LS	—		—		—		—		—		—		—	
570.100001 M	ENVIRONMENTAL WATERWAY PROTECTION	LS	—		—		—		—		—		—		—	
570.100002 M	ENVIRONMENTAL WATERWAY PROTECTION	LS	—		—		—		—		—		—		—	
16570.32 M	LOCALIZED PAINTING OF BARE STRUCTURAL STEEL	SM	—		—		—		—		—		—		—	
16570.72 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL PLANAR SURFACES	SM	—		—		—		—		—		—		—	
16570.76 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL - IRREGULAR	SM	—		—		—		—		—		—		—	
571.010001 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	—		—		—		—		—		—		—	
571.010002 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	—		—		—		—		—		—		—	
571.010003 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	—		—		—		—		—		—		—	
571.010004 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	—		—		—		—		—		—		—	
572.010001 M	STRUCTURAL STEEL PAINT SYSTEM; SHOP APPLIED	SM	—		—		—		—		—		—		—	
572.010002 M	STRUCTURAL STEEL PAINT SYSTEM; SHOP APPLIED	SM	—		—		—		—		—		—		—	
576.2001M	DOWNSPOUT SYSTEM, DUCTILE IRON	M	—		—		—		—		—		—		—	
578.020001 M	OVERLAY CONCRETE - CLASS E	SM	—		—		—		—		—		—		—	
578.020002 M	OVERLAY CONCRETE - CLASS E	SM	—		—		—		—		—		—		—	
578.020003 M	OVERLAY CONCRETE - CLASS E	SM	—		—		—		—		—		—		—	
578.020004 M	OVERLAY CONCRETE - CLASS E	SM	—		—		—		—		—		—		—	
578.020005 M	OVERLAY CONCRETE - CLASS E	SM	—		—		—		—		—		—		—	
578.030001 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	—		—		—		—		—		—		—	
578.030002 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	—		—		—		—		—		—		—	
578.030003 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	—		—		—		—		—		—		—	
578.030004 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	—		—		—		—		—		—		—	
578.030005 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	—		—		—		—		—		—		—	
578.030006 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	18		—		—		—		—		—		—	
578.030007 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	—		—		17		—		—		—		—	
579.02 M	REINFORCING BAR EXPOSURE	SM	26		8		17		8		—		—		—	
580.01 M	REMOVAL OF STRUCTURAL CONCRETE	CM	3		3		—		3		1		—		—	
582.05 M	REMOVE STRUCTURAL CONCRETE WITH CLASS A CONCRETE	CM	1		1		1		—		1		1		2	
582.07 M	REMOVE STRUCTURAL CONCRETE AND REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL	SM	—		—		—		—		—		—		—	
16584.13 M	RAPID SETTING CONCRETE FOR BRIDGE AND APPROACH SLAB REPAIRS	KG	—		—		—		—		—		—		—	
585.01 M	STRUCTURAL LIFTING OPERATIONS - TYPE A	EA	10		—		10		10		—		—		—	
585.02 M	STRUCTURAL LIFTING OPERATIONS - TYPE B	EA	—		—		—		—		—		—		—	
585.03 M	STRUCTURAL LIFTING OPERATIONS TYPE C	EA	—		—		—		—		—		—		—	
586.01 M	DRILL AND GROUT BOLTS, OR REINFORCING BARS	mm	6000		6000		—		6600		4200		—		—	
17586.18M	DRILLING HOLES IN EXISTING SUBSTRUCTURE	M	—		—		—		—		—		—		—	
16586.200125 M	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA	—		—		—		—		—		—		—	
16586.200216 M	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA	—		—		—		—		—		—		—	
587.01 M	BRIDGE RAILING REMOVAL AND DISPOSAL	M	—		—		—		—		—		—		—	
589.520001 M	REMOVAL OF EXISTING STEEL	EA	—		—		—		—		—		—		—	
589.520002 M	REMOVAL OF EXISTING STEEL	EA	—		—		—		—		—		—		—	
589.520003 M	REMOVAL OF EXISTING STEEL	EA	—		—		—		—		—		—		—	
589.520004 M	REMOVAL OF EXISTING STEEL	EA	—		—		—		—		—		—		—	
589.520005 M	REMOVAL OF EXISTING STEEL	EA	—		—		—		—		—		—		—	
590.01M	VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES	EA	—		—		—		—		—		—		—	
603.6001 M	REINFORCED CONCRETE PIPE CLASS III, 300 mm	M	—		—		—		—		—		—		—	
603.7301M	REINFORCED CONCRETE PIPE END SECTION 300 mm DIAMETER	EA	—		—		—		—		—		—		—	

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE DATE

SHEET 8 OF 12

ESTIMATE OF QUANTITIES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
30561311A	3	10/02	QE-38

ESTIMATE OF QUANTITIES BY STRUCTURE

[illegible]

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	188	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE _____

SHEET 9 OF 12

ESTIMATE OF QUANTITIES



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME
305613.L1A

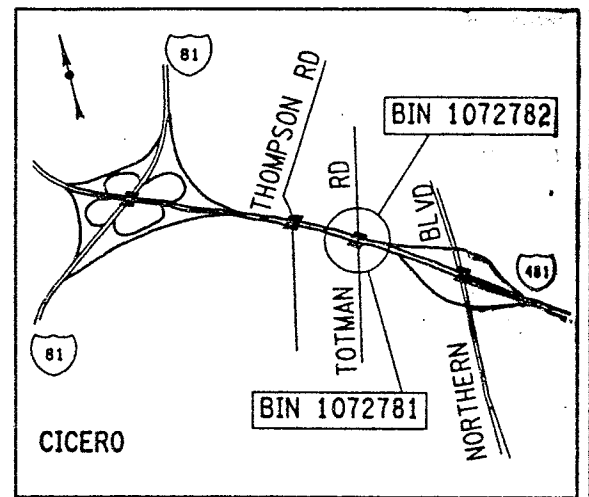
REGION
3

DATE
10/02

DRAWING NO.
OF-30

CHECKED BY
DRAFTED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	260	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1072781 & 1072782	



LOCATION MAP
NOT TO SCALE

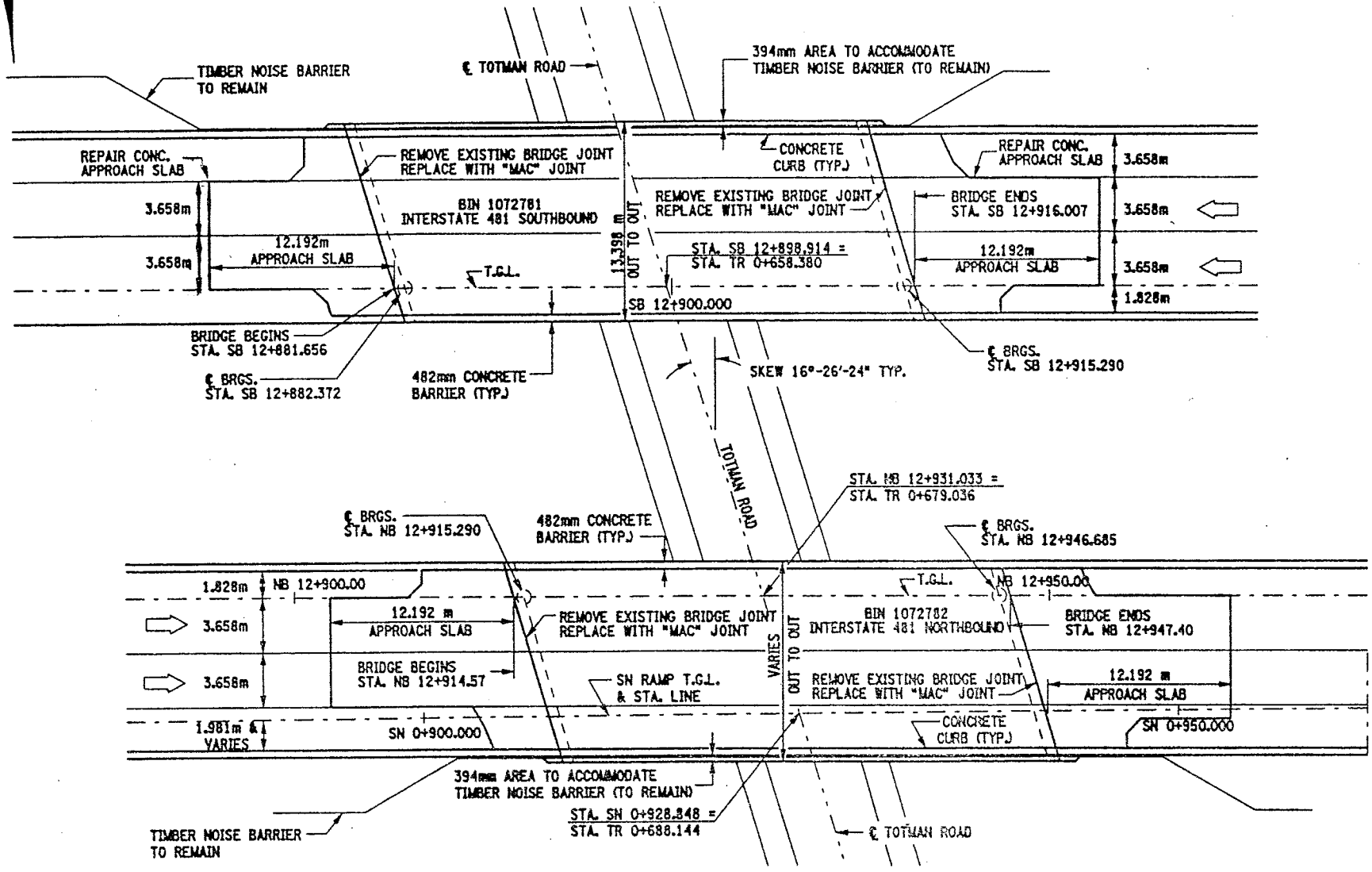
WORK TO BE DONE (NOT NECESSARILY IN THIS ORDER):

BIN 1072781:

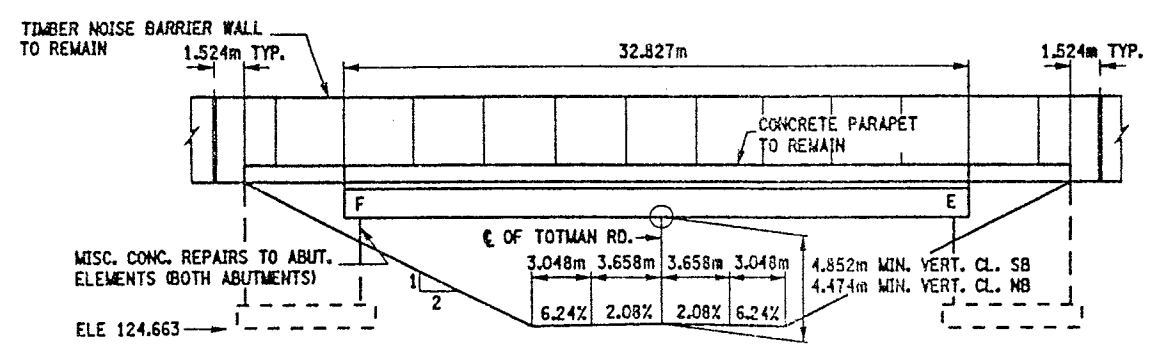
1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION.
2. REPAIR CONCRETE APPROACH SLAB.
3. REMOVE EXISTING BRIDGE JOINTS.
4. PLACE NEW BRIDGE JOINTS, ("MAC" JOINTS).
5. PERFORM MISCELLANEOUS REPAIRS TO CONCRETE ELEMENTS AT ABUTMENTS.

BIN 1072782:

1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION.
2. REMOVE EXISTING BRIDGE JOINTS.
3. PLACE NEW BRIDGE JOINTS, ("MAC" JOINTS).
4. PERFORM MISCELLANEOUS REPAIRS TO CONCRETE ELEMENTS AT ABUTMENTS.



PLAN VIEW
SCALE: 1:200



ELEVATION
SCALE: 1:200
NB SHOWN, SB SIMILAR

NOTE:

"MAC" JOINT - MODIFIED ARMORED JOINT SYSTEM
WITH COMPRESSION SEAL.

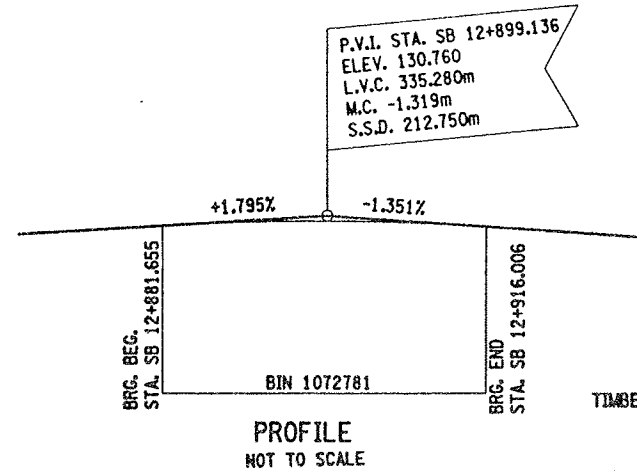
BIN 1072781 SOUTHBOUND
BIN 1072782 NORTHBOUND

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE		DATE	
INTERSTATE 481 OVER TOTMAN ROAD			
PLAN, ELEVATION AND BRIDGE SECTION			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AB.G1A	REGION 3	DATE 10/02	DRAWING NO. GP10-1

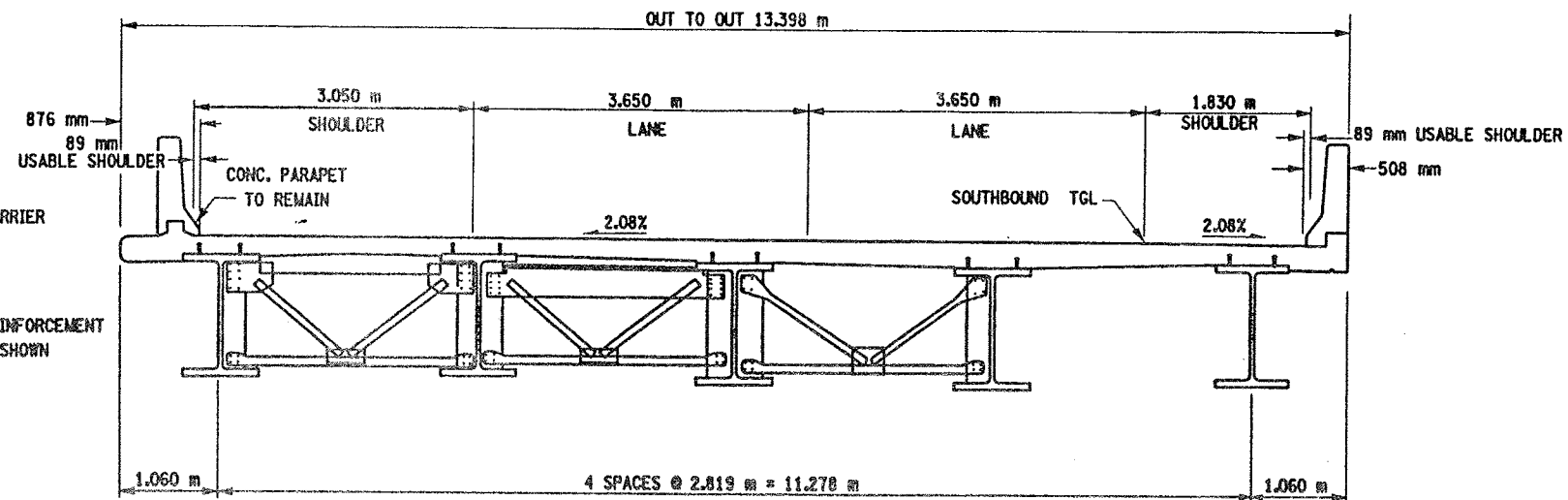
DESIGN SUPERVISOR JOB MANAGER CHECKED BY ESTIMATED BY DRAFTED BY CHECKED BY

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	261	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1072781 & 1072782		

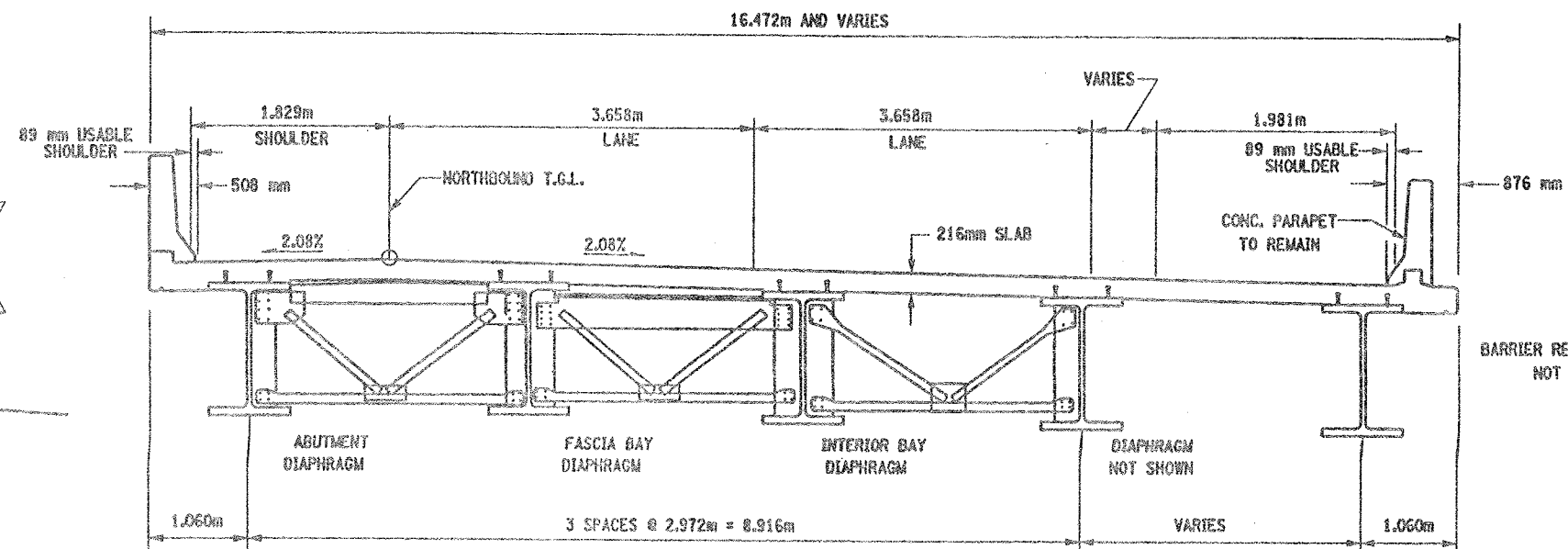
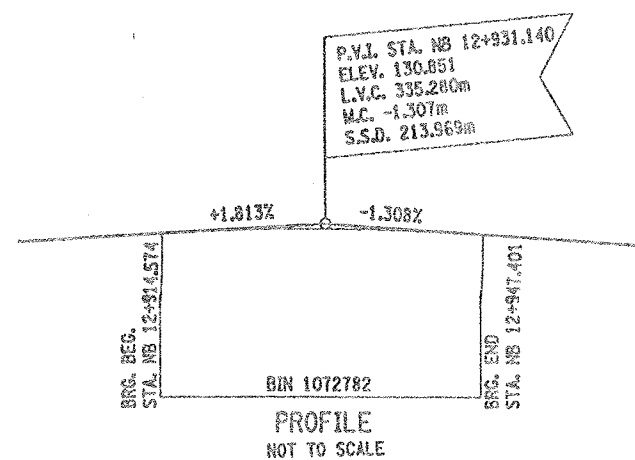


TIMBER NOISE BARRIER
NOT SHOWN

BARRIER REINFORCEMENT
NOT SHOWN



BRIDGE SECTION
BIN 1072781
NOT TO SCALE



TIMBER NOISE BARRIER
NOT SHOWN

BARRIER REINFORCEMENT
NOT SHOWN

BRIDGE SECTION
BIN 1072782
NOT TO SCALE

NOTES:

TIMBER NOISE BARRIER WALL IS ATTACHED
TO NORTH FASCIA ON BIN 1072782 NB AND
TO THE SOUTH FASCIA ON BIN 1072781 SB.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481
OVER
TOTMAN ROAD

TYPICAL BRIDGE SECTION AND PROFILE



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AB.G1A	REGION 3	DATE 10/02	DRAWING NO. TS10-1
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DRAFTED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	262	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1072781	

NOTES:

1. ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ETC.
2. REMOVE CONCRETE TO LIMITS SHOWN AS WELL AS TO SOUND CONCRETE, A.O.B.E.
3. WHEN REMOVING EXISTING CONCRETE, SAWCUT 5 mm MIN. TO PRODUCE NEAT REMOVAL LINES. ANY COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 582.05M.
4. ALL EXISTING REINFORCEMENT TO REMAIN.
5. ELEVATIONS ARE GIVEN FOR QUANTITY ESTIMATES ONLY.
6. REFER TO CONTRACT D250416 FOR ORIGINAL CONSTRUCTION DETAILS.
7. FOR REMOVAL DETAIL SEE DWG AB10-2.

BRIDGE BEARING RESTORATION NOTES:

1. THE BRIDGE BEARING RESTORATION ITEM 15565.4302M SHALL INCLUDE ALL DESIGNATED WORK AS PER THE SPECIFICATION.
2. IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER SPAN (TO A MAXIMUM OF 3mm TO REMOVE LOAD FROM BEARINGS), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN SPECIFICATION SECTION 585 -STRUCTURAL LIFTING OPERATIONS.
3. BEARING RESTORATION SHALL INCLUDE REPLACEMENT OF BRONZE PLATE.
4. FIXED BEARINGS TO BE CLEANED IN PLACE. DO NOT DISASSEMBLE.
5. SEE BR-12 FOR EAST ABUTMENT BEARING RESTORATION DETAILS.
6. ALL FIVE EXPANSION BEARINGS AT WEST ABUTMENT, SHALL ALSO INCLUDE ITEM 15565.4302 M BRIDGE BEARING RESTORATION AND ITEM 585.01 M STRUCTURAL LIFTING TYPE A. SEE BR-12 FOR DETAILS.

- AREAS OF PROPOSED WORK: ITEM 580.01M REMOVAL OF STRUCTURAL CONCRETE (CM), ITEM 585.0105M CONCRETE FOR STRUCTURES, CLASS A (CM)
- AREAS OF PROPOSED WORK: ITEM 582.05M REMOVAL OF STRUCTURAL CONCRETE - REPLACEMENT WITH CLASS A CONCRETE

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

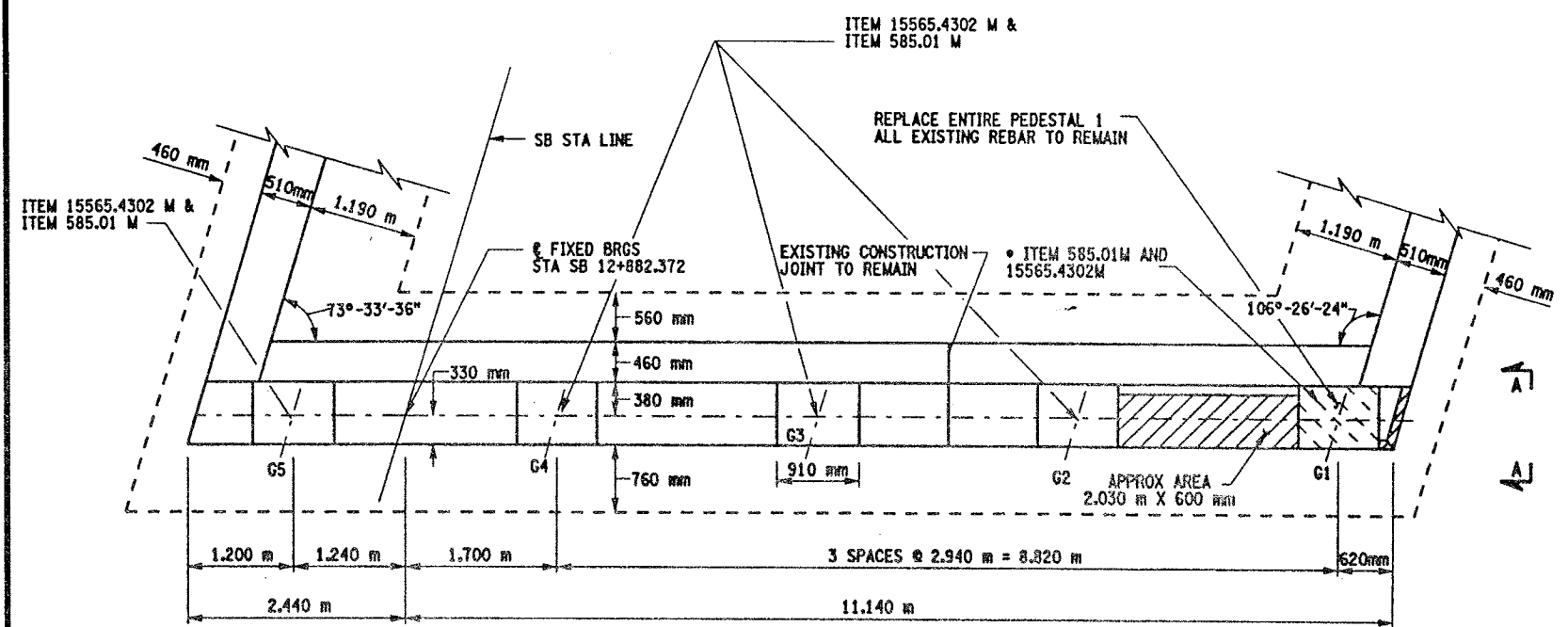
SIGNATURE		DATE	
INTERSTATE 481 SB OVER TOTHMAN ROAD EAST ABUTMENT			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AB.A1B	REGION 3	DATE 10/02	DRAWING NO. AB10-1

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.01M - STRUCTURAL LIFTING OPERATIONS TYPE A (LIFTING AT AN ABUTMENT).

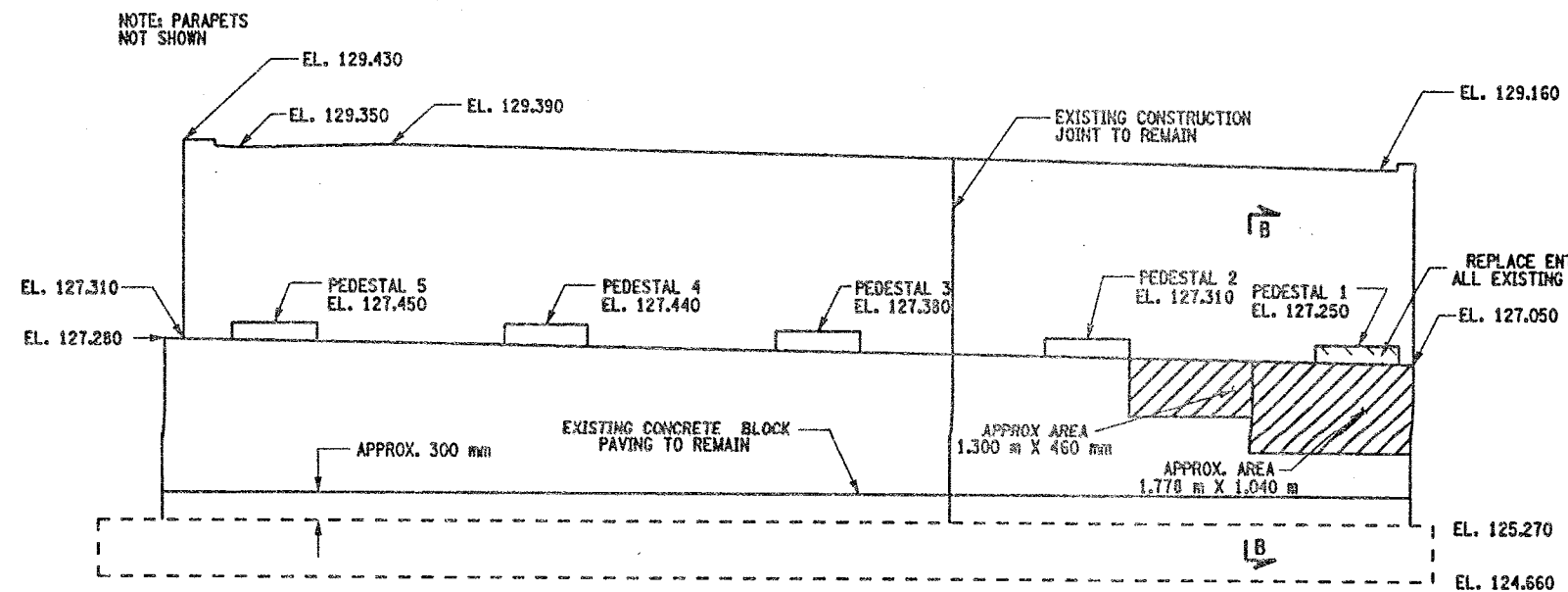
JACKING LOADS
D.L. = 50 MT
L.L. = 50 MT
TOTAL = 100 MT

LIST OF ITEMS USED:

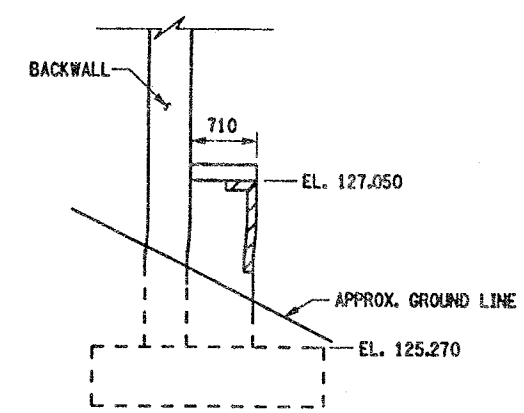
ITEM 555.0105M - CONCRETE FOR STRUCTURES CLASS A (CM)
ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
ITEM 585.01M - STRUCTURAL LIFTING OPERATIONS, TYPE A (EA)



EAST ABUTMENT PLAN
SCALE 1:40



EAST ABUTMENT ELEVATION
SCALE 1:40

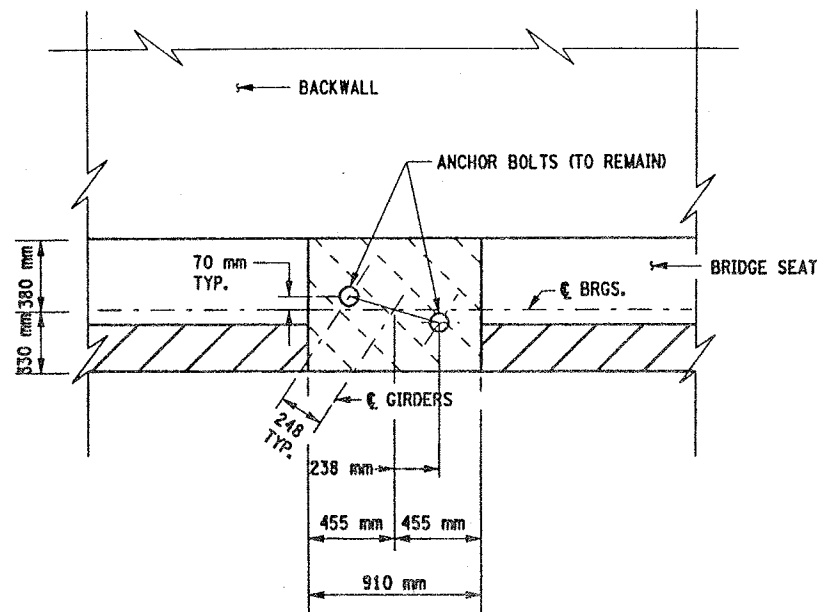


SECTION B-B
NOT TO SCALE

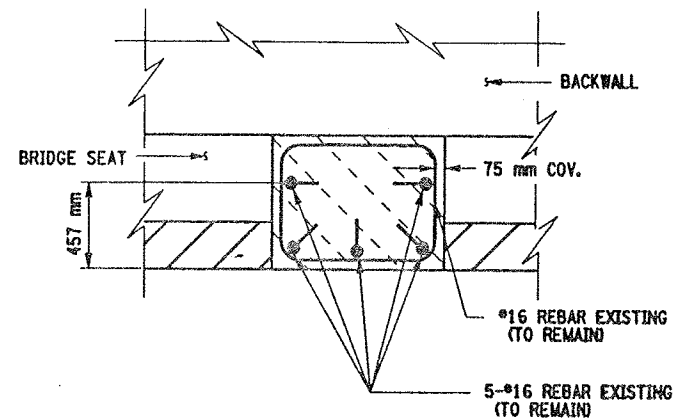
CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	0.13	555.0105M

DESIGN SUPERVISOR JOB MANAGER DESIGNED BY CHECKED BY ESTIMATED BY DRAFTED BY CHECKED BY

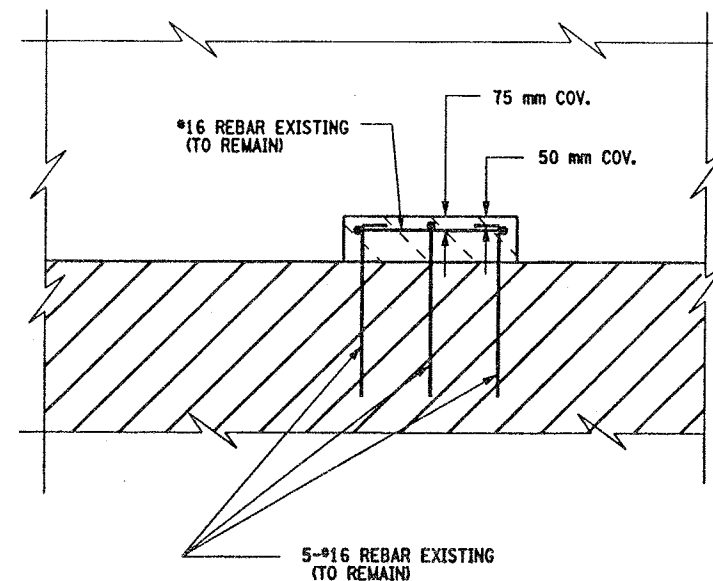
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	263	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1072781		



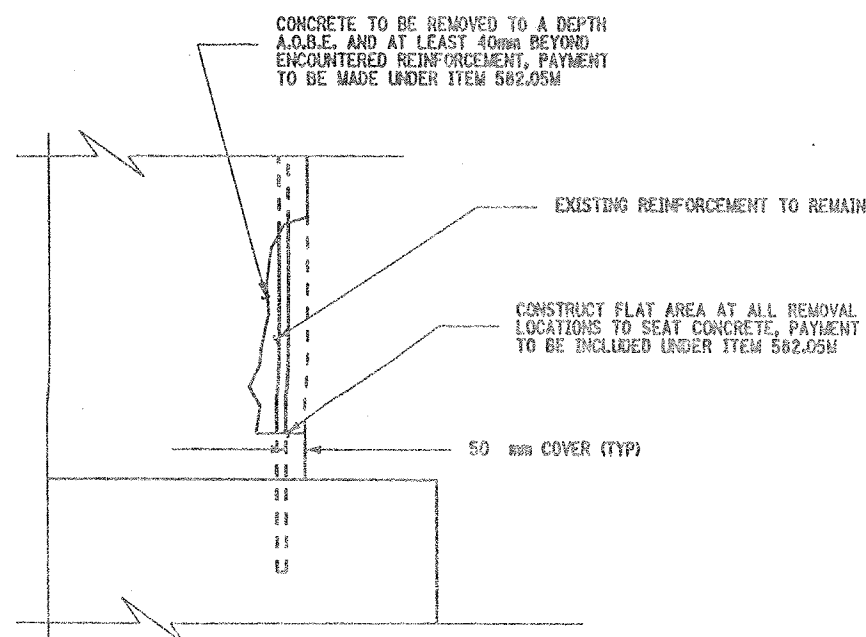
EXISTING ANCHOR BOLT LAYOUT
SCALE 1:20



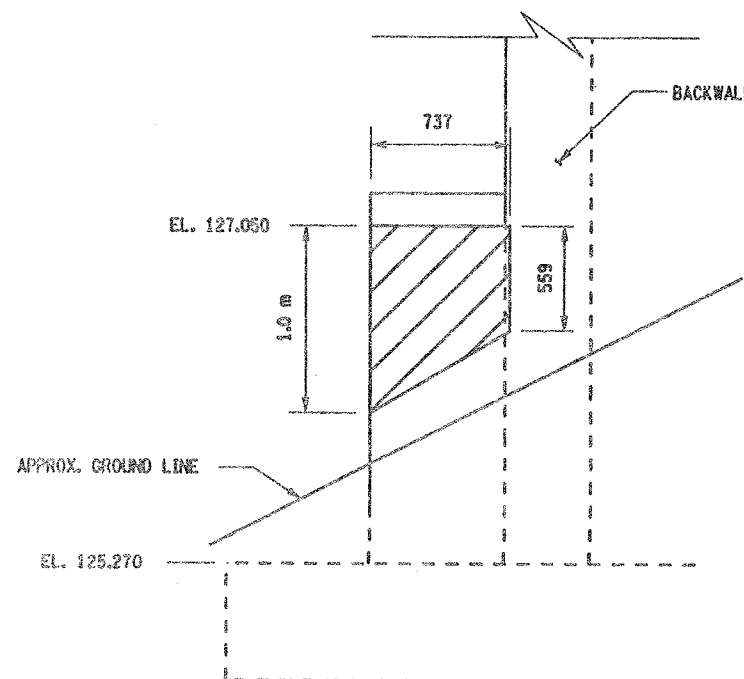
EXISTING PEDESTAL REINFORCEMENT
SCALE 1:20



EXISTING PEDESTAL REINFORCEMENT
SCALE 1:20



REMOVAL DETAIL
NOT TO SCALE



SECTION A-A
NOT TO SCALE



AREAS OF PROPOSED WORK: ITEM 580.01M REMOVAL OF STRUCTURAL CONCRETE (CM), ITEM 555.0105M CONCRETE FOR STRUCTURES, CLASS A (CM)



AREAS OF PROPOSED WORK: ITEM 582.05M REMOVAL OF STRUCTURAL CONCRETE - REPLACEMENT WITH CLASS A CONCRETE

LIST OF ITEMS USED:

ITEM 555.0105M - CONCRETE FOR STRUCTURES CLASS A (CM)
ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE DATE

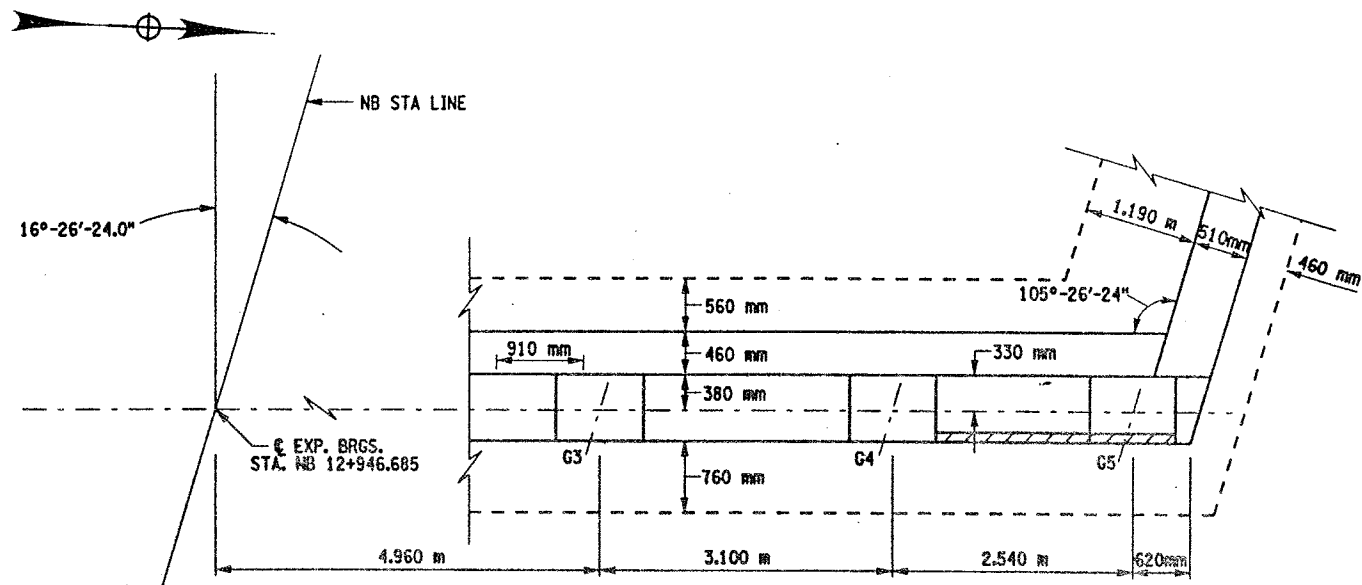
INTERSTATE 481 SB
OVER
TOTMAN ROAD
EAST ABUTMENT

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

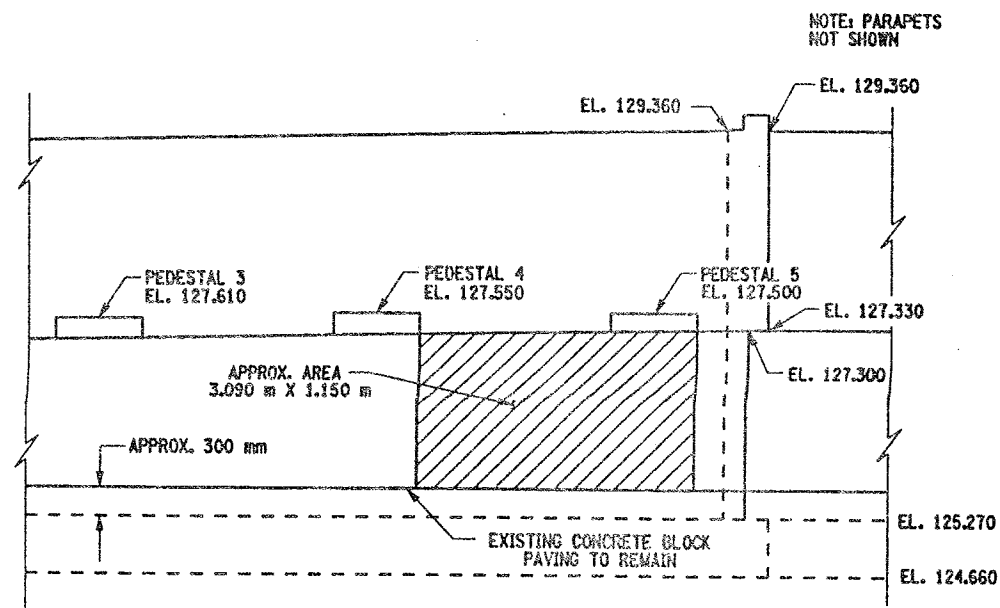


FILENAME REGION DATE DRAWING NO.
305613AB.A1B 3 10/02 AB10-2

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ESTIMATED BY
CHECKED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR



WEST ABUTMENT
PARTIAL PLAN
SCALE 1:40



WEST ABUTMENT
PARTIAL ELEVATION
SCALE 1:40

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	264	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1072782	

NOTES:

1. ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ETC.
2. REMOVE CONCRETE TO LIMITS SHOWN AS WELL AS TO SOUND CONCRETE, A.O.B.E.
3. WHEN REMOVING EXISTING CONCRETE, SAWCUT 5 mm MIN. TO PRODUCE NEAT REMOVAL LINES, ANY COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 582.05M.
4. ALL EXISTING REINFORCEMENT TO REMAIN.
5. ELEVATIONS ARE GIVEN FOR QUANTITY ESTIMATES ONLY.
6. REFER TO CONTRACT D250416 FOR ORIGINAL CONSTRUCTION DETAILS.
7. FOR REMOVAL DETAILS SEE DWG. AB10-2.



AREAS OF PROPOSED WORK: ITEM 582.05M
REMOVAL OF STRUCTURAL CONCRETE-
REPLACEMENT WITH CLASS A CONCRETE

LIST OF ITEMS USED:

ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE -
REPLACEMENT WITH CLASS A CONCRETE.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481 NB
OVER
TOTMAN ROAD
WEST ABUTMENT

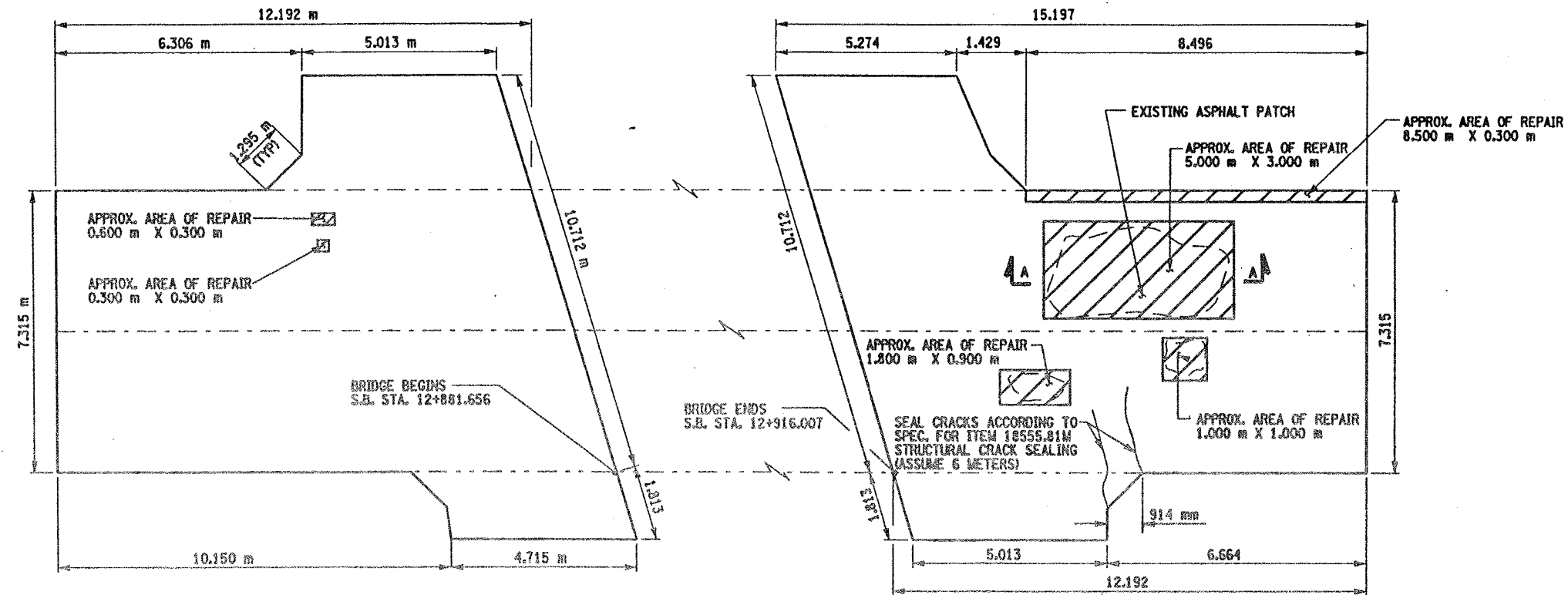


STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

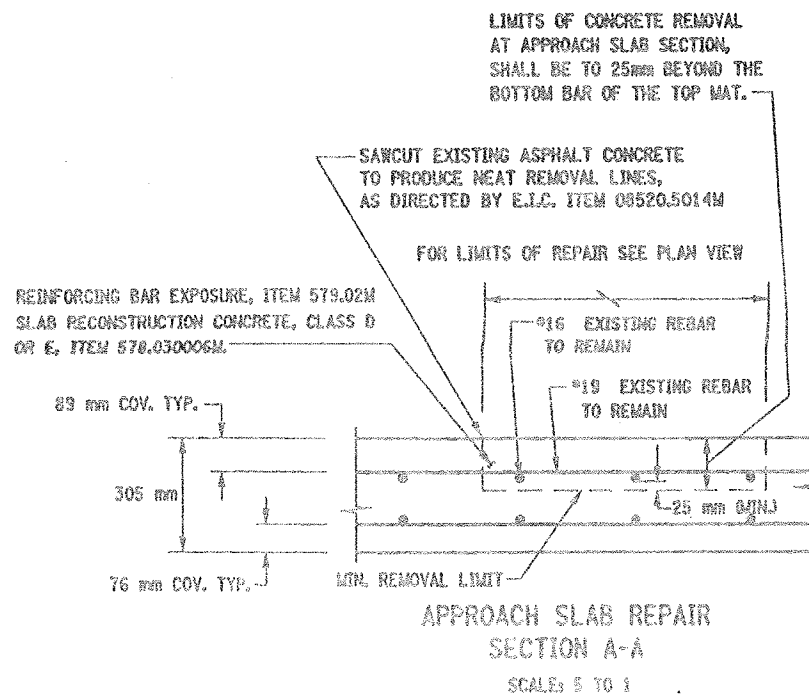
FILENAME	REGION	DATE	DRAWING NO.
305613AB.A1B	3	10/02	AB10-3

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DRAFTED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	265	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.L.N. 305613			B.I.N. 1072781	



PLAN VIEW
APPROACH SLABS
SCALE: 1 TO 75



APPROACH SLAB REPAIR
SECTION A-A
SCALE: 5 TO 1

NOTES

1. ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND EIC.
2. REMOVE CONCRETE TO LIMITS SHOWN AS WELL AS TO SOUND CONCRETE, A.O.B.E.
3. WHEN REMOVING EXISTING CONCRETE, SAWCUT 5 mm MIN. TO PRODUCE NEAT REMOVAL LINES.
4. ALL EXISTING REINFORCEMENT TO REMAIN.
5. REFER TO CONTRACT D250416 FOR ORIGINAL CONSTRUCTION DETAILS

ITEM 579.02M - REINFORCING BAR EXPOSURE,
ITEM 578.030006M SLAB RECONSTRUCTION CONCRETE,
CLASS D OR E AND ITEM 558.01M TRANSVERSE
SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE

LIST OF ITEMS USED:

ITEM 08520.5014M - SAWCUT ASPH CONC/ASPH OVERLAY PCC PAVE ON
ITEM 18555.81M - STRUCTURAL CRACK SEALING 60
ITEM 558.01M - TRANSVERSE SAWCUT GROOV OF STR SLAB SURF (SM)
ITEM 578.030006M - SLAB RECONSTRUCTION CONCRETE, CLASS D OR E (SM)
ITEM 579.02M - REINFORCING BAR EXPOSURE (SM)

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

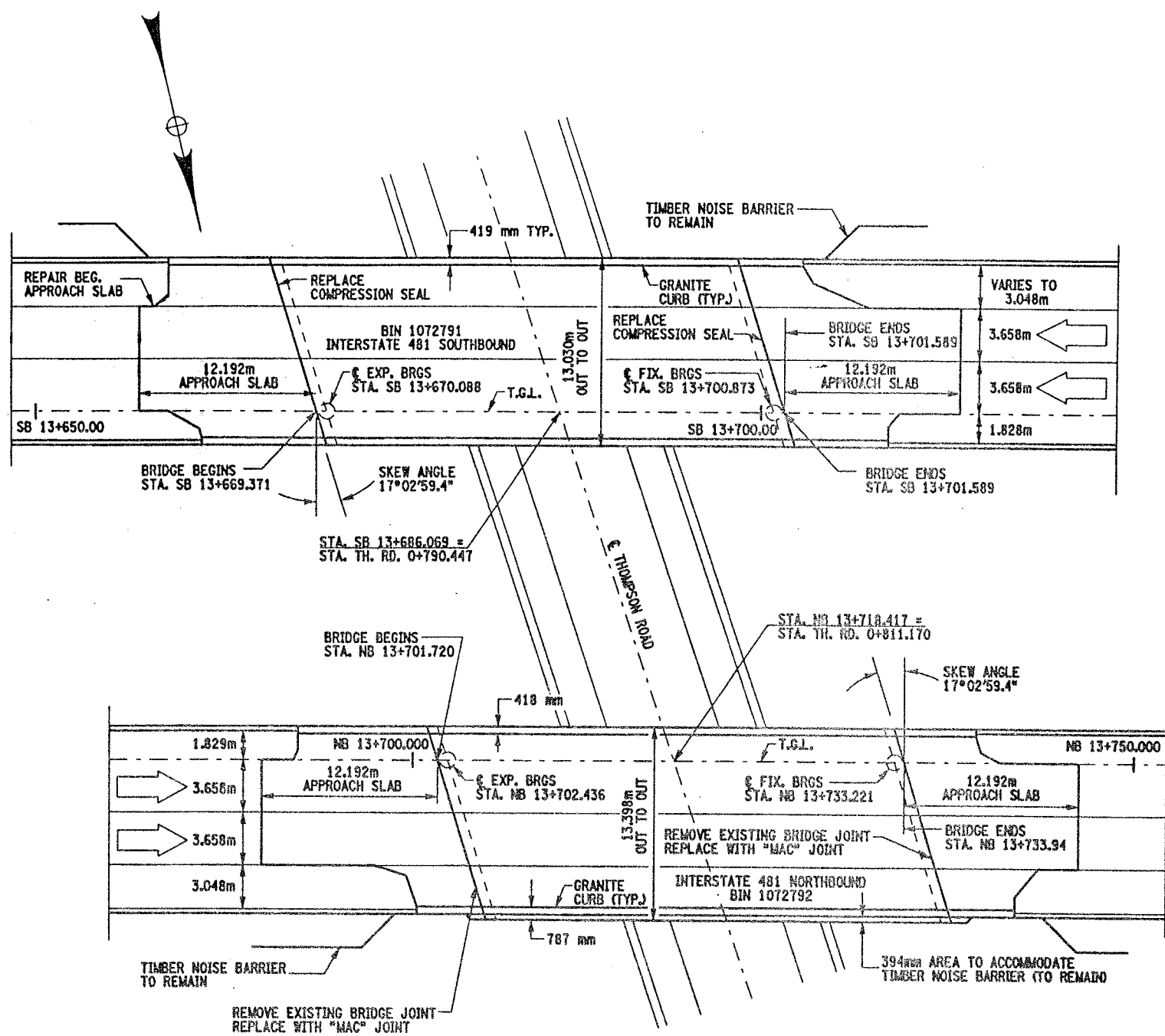
SIGNATURE DATE

INTERSTATE 481 SB
OVER
TOTMAN ROAD
APPROACH SLABS

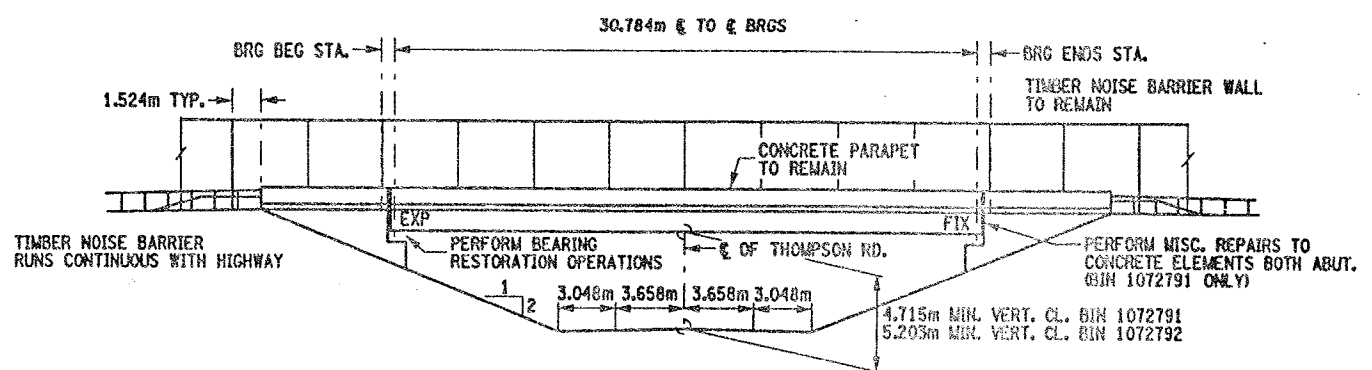
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.
305613AB.A1A 3 10/02 AS10-1

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DRAFTED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR



EXISTING PLAN VIEW
SCALE: 1:200



EXISTING ELEVATION VIEW
SCALE: 1:200

WORK TO BE DONE (NOT NECESSARILY IN THIS ORDER)
BIN 1072791:

1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION.
2. REPLACE COMPRESSION SEALS AT THE BRIDGE JOINTS.
3. REPAIR CONCRETE BEGINNING APPROACH SLAB. (SEE DWG. MS-2)
4. PERFORM BEARING RESTORATION OPERATIONS.
5. PERFORM MISCELLANEOUS REPAIRS TO CONCRETE ELEMENTS, BOTH ABUTMENTS.

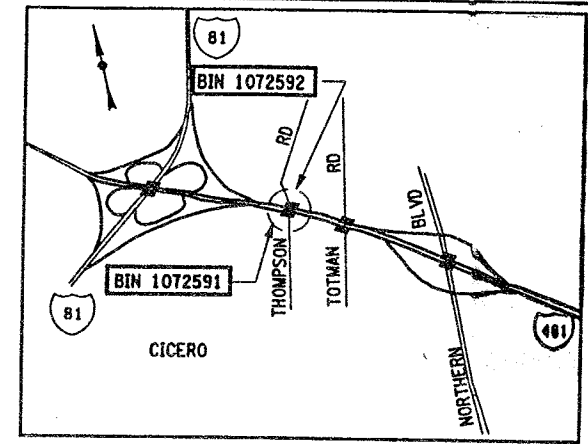
BIN 1072792:

1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION.
2. REMOVE EXISTING BRIDGE JOINTS.
3. PLACE NEW BRIDGE JOINTS, ("MAC" JOINTS).
4. PERFORM BEARING RESTORATION OPERATIONS.

NOTE:
"MAC" JOINT - MODIFIED ARMORED JOINT SYSTEM
WITH COMPRESSION SEAL.

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	266	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)
VARIOUS BRIDGES ON INTERSTATE 481
TOWN OF DEWITT AND CICERO
ONONDAGA COUNTY
P.I.N. 305613 B.I.N. 1072791 & 1072792



LOCATION MAP
NOT TO SCALE

BIN 1072791 SOUTHBOUND
BIN 1072792 NORTHBOUND

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE		DATE	
INTERSTATE 481 OVER THOMPSON ROAD PLAN, ELEVATION AND BRIDGE SECTION			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AC.G1A	REGION 3	DATE 10/02	DRAWING NO. GP11-1

1072781

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	352	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613			B.I.N. 1072781	

BRIDGE BEARING RESTORATION NOTES:

- BRIDGE BEARING RESTORATION ITEM 15565.4302M SHALL INCLUDE ALL DESIGNATED WORK AS PER THE SPECIFICATION.
- STRUCTURAL LIFTING SHALL BE USED WITH ALL EXPANSION BEARING RESTORATION.
- IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER SPAN (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARINGS), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN SPECIFICATIONS SECTION 585-STRUCTURAL LIFTING OPERATIONS.
- BEARING RESTORATION SHALL AS A MINIMUM, AND IN ALL CASES INCLUDE REPLACEMENT OF BRONZE PLATE.
- FIXED BEARING TO BE CLEANED IN PLACE. DO NOT DISASSEMBLE.

JACKING NOTES:

THE METHOD OF LIFTING SHALL BE APPROVED BY THE DEPUTY CHIEF ENGINEER (STRUCTURES), DCES, TWO WEEKS PRIOR TO THE START OF THE WORK.

NO LIFTING WILL BE ALLOWED UNTIL ALL TEMPORARY SUPPORTS ARE SECURED.

WHEN POSSIBLE, THERE WILL BE NO LIVE LOAD DURING LIFTING.

LIFTING SHALL BE CONFINED TO ONE END OF A SPAN AT ANY ONE TIME.

IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER PIER (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARING), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN THE SPECIFICATION SECTION 585-STRUCTURAL LIFTING OPERATIONS.

ALL MATERIALS ASTM A588
EXCEPT AS NOTED

LIST OF ITEMS USED:

ITEM 15565.4302 M - BRIDGE BEARING RESTORATION (EA)
ITEM 585.01M - STRUCTURAL LIFTING OPERATIONS (TYPE A) (EA)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

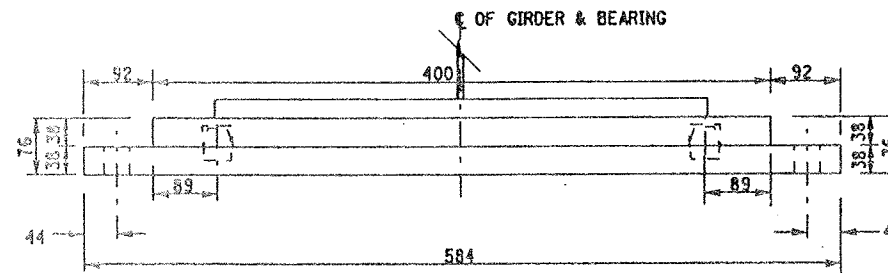
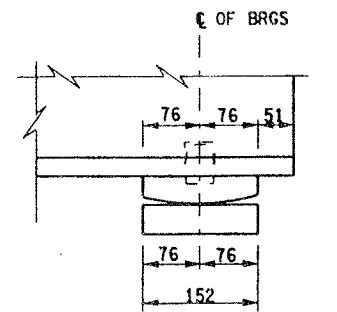
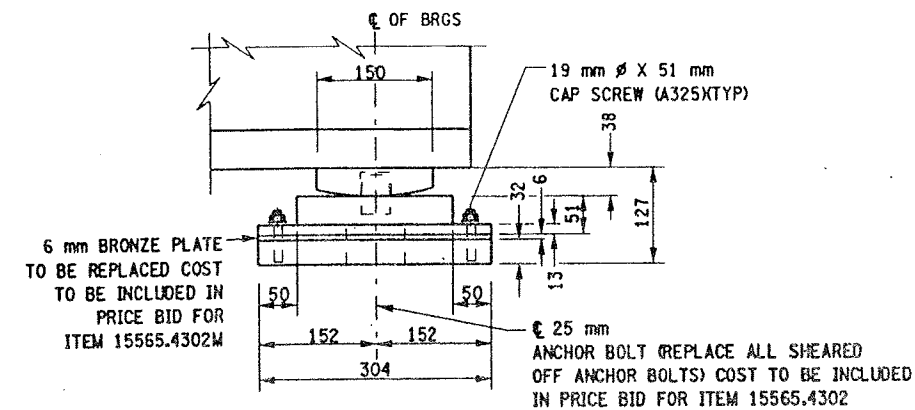
DATE

INTERSTATE 481 SB
OVER
TOTMAN ROAD
BEARING RESTORATION DETAILS

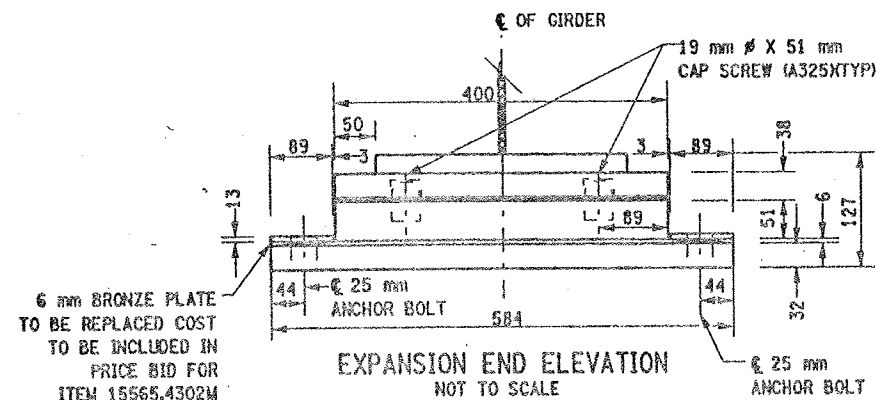


STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

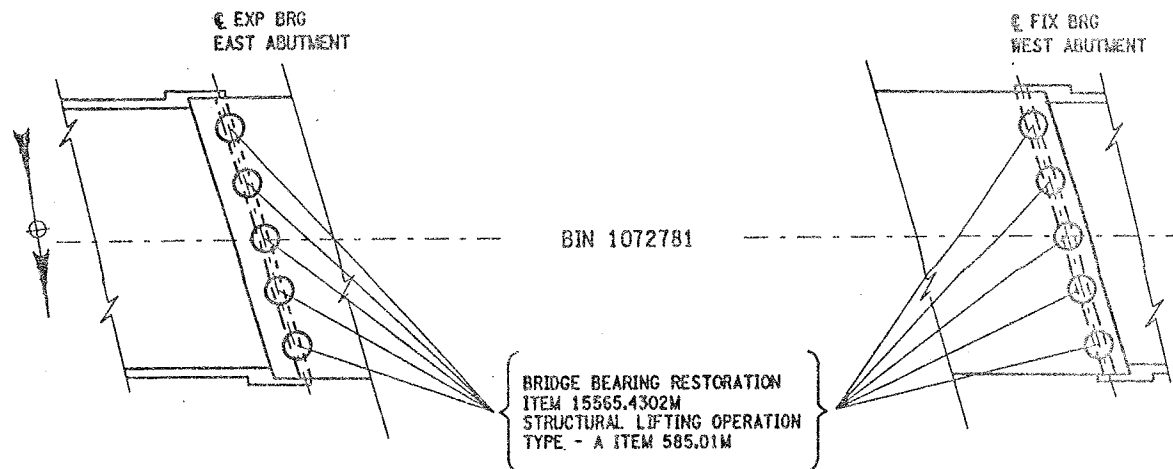
FILENAME	REGION	DATE	DRAWING NO.
305613ZZ.M1A	3	10/02	BR-12



LOW STEEL FIXED BEARING DETAILS
BIN 1072781-WEST ABUTMENT



LOW STEEL EXPANSION BEARING DETAILS
BIN 1072781 - EAST ABUTMENT



NOT TO SCALE

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.01M -
STRUCTURAL LIFTING OPERATIONS - TYPE A (LIFTING
AT AN ABUTMENT).

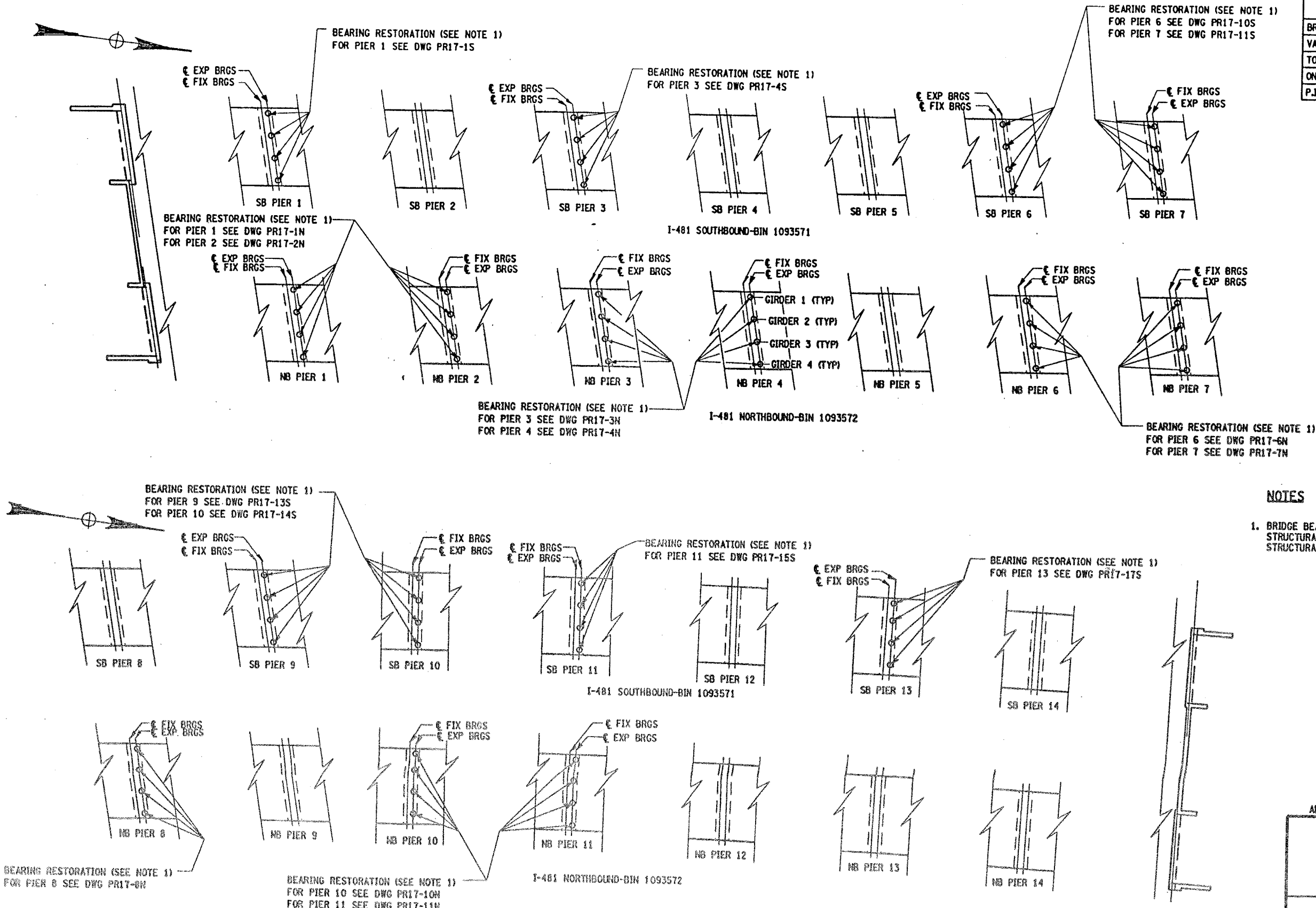
JACKING LOADS:

D.L. = 50 MT
L.L. = 50 MT
TOTAL = 1000 MT

CHECKED BY
DRAFTED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

CHECKED BY
DRAFTED BY
ESTIMATED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	351	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613		B.I.N. 1093571 & 1093572		



NOTES

1. BRIDGE BEARING RESTORATION ITEM 15565.4302M AND EITHER STRUCTURAL LIFTING OPERATION -(TYPE B) ITEM 585.02M OR STRUCTURAL LIFTING OPERATION -(TYPE C) ITEM 585.03M

BRIDGE PLAN SCHEMATIC
SCALE 1/300

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 SB & NB OVER CSX RAILROAD BEARING RESTORATION DETAILS BRIDGE PLAN SCHEMATIC			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 30561372.M1A	REGION 3	DATE 10/02	DRAWING NO. BR-11

LEGEND

EXISTING JOINT TYPE:

CJ = ARMORED COMPRESSION JOINT SYSTEM
OD = MODULAR JOINT SYSTEM
AC = MODIFIED ARMORED COMPRESSION
SYSTEM (NO HORIZ. ARMORING ANGLE)
DA = ARMORED DECK ANGLE
S = STRIP SEAL JOINT
PEN = OPEN JOINT

PROPOSED JOINT TYPE:


AC-1 = MOD. ARM./COMP. SEAL JT. SYS. (A-1)
AC-2 = MOD. ARM./COMP. SEAL JT. SYS. (A-2)
AC-5 = MOD. ARM./COMP. SEAL JT. SYS. (A-5)
AC-6 = MOD. ARM./COMP. SEAL JT. SYS. (A-6)
CS = REPLACE EXISTING COMPRESSION SEAL
ADA = REMOVE ARMOR DECK ANGLE
OD-1 = MODULAR JT. SYS. (ONE-CELL)
OD-2 = MODULAR JT. SYS. (TWO-CELL)

JOINT BEND LOCATION:

= NO BENDS
RB = CURB LINE
AVT = PAVEMENT

GENERAL NOTES:

ALL MEASUREMENTS SHALL BE FIELD
VERIFIED.
CURB TO CURB LENGTHS ARE MEASURED
ALONG C OF JOINT.
MULTIPLE DIMENSIONS ARE SHOWN LOOKING
UP-STATION, LEFT TO RIGHT.
ALL DIMENSIONS ARE SHOWN IN METERS.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED			
<u>AS BUILT REVISIONS</u>			
SIGNATURE		DATE	
INTERSTATE 481 VARIOUS BRIDGES			
BRIDGE JOINT TABLE			
 <div>STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION</div>			
FILENAME 305613AJ.JAI	REGION 3	DATE 10/02	DRAWING NO. JT-2

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ITEM 566.01M - MODULAR EXP. JOINT SYSTEM ONE-CELL (M)
ITEM 566.02M - MODULAR EXP. JOINT SYSTEM TWO-CELL (M)
ITEM 567.31M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (m)
ITEM 567.32M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (m)
ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m)
ITEM 567.36M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m)
ITEM 16567.640001M - REPLACE COMPRESSION SEAL FOR EXISTING BRIDGE JOINTS (m)

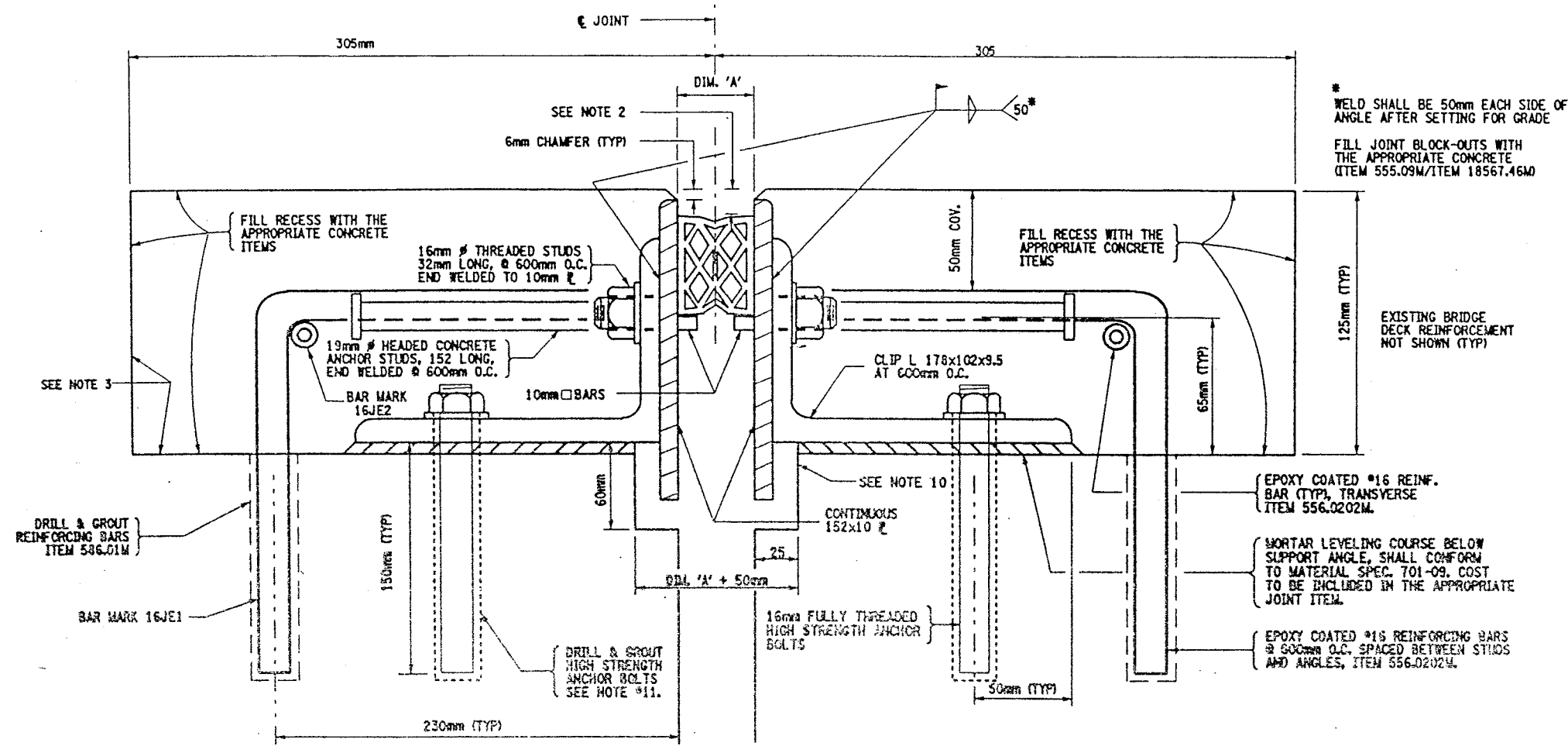
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CHECKED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	365	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. ALL 81N'S	

GENERAL NOTES:

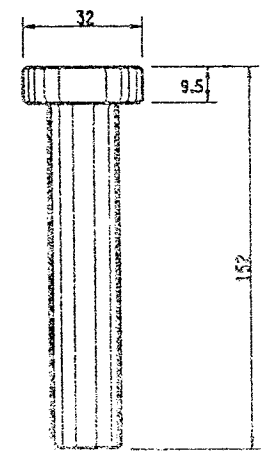
1. THE TEMPERATURE OF THE BRIDGE MUST BE TAKEN ON THE STRUCTURAL STEEL SURFACE TO DETERMINE THE TEMPERATURE CORRECTION FOR THE JOINT OPENINGS.
2. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS NORMAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6mm NOR MORE THAN 19mm BELOW THE TOP OF THE ROADWAY.
3. RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACE AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE, FOR 12 HOURS. NOTE THE USE OF MATERIAL SPEC. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED. SEE INSERT IN PROJECT PROPOSAL.
4. A WATER-TIGHT INTEGRITY TEST SHALL BE PERFORMED BY THE CONTRACTOR AT ALL COMPRESSION SEAL JOINT INSTALLATIONS. THE FOLLOWING TEST PARAMETERS SHALL BE INCORPORATED IN THE TEST:
 1. A 15 MINUTE MINIMUM PERIOD OF STANDING WATER, WITH A 25mm MINIMUM DEPTH SHALL BE USED.
 2. IN ADDITION, IN LOCATIONS OF COPED AREAS OF THE SEAL, BENDS, ETC., WATER PRESSURE SHALL BE APPLIED, TO THE SATISFACTION OF THE EIC FOR A 15 MINUTE PERIOD.
 3. LIMITS OF TEST AREA SHALL BE FROM FACE OF CURB TO FACE OF CURB ON THE DECK SURFACE.
5. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THE JOINT IF, IN THE OPINION OF THE ENGINEER, THE INSTALLED JOINT LEAKS WITHIN THE 15 MINUTE TEST PERIOD.
6. PRIOR TO THE START OF WORK AT EACH JOINT, THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR THE SPECIFICS OF THE TESTING, INCLUDING CONTAINMENT OF THE WATER AND THE METHOD TO BE USED FOR ACCESS BY THE E.I.C. TO THE BOTTOM OF THE JOINT BEING TESTED.
7. THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THE TESTING WHICH INCLUDES, BUT IS NOT LIMITED TO:
 1. A CONTAINMENT SYSTEM FOR THE TEST WATER.
 2. PROVISIONS FOR E.I.C. ACCESS TO THE BOTTOM OF THE JOINT. SHALL BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE JOINT ITEMS.
8. THE COST OF ALL LABOR, EQUIPMENT, AND MATERIALS TO INSTALL THE NEW JOINT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT ITEM.
9. MORTAR LEVELING COURSE SHALL CONFORM TO MATERIAL SPECIFICATION 701-09 AND SHALL BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE JOINT ITEM.
10. THE DIMENSIONS OF THE REMOVAL AREA UNDER THE 152x10 PLATES ARE SHOWN TO ALLOW SPACE FOR THE PLATES TO REST FREELY. IF THERE IS ALREADY ADEQUATE SPACE, NO CONCRETE REMOVAL OR REPLACEMENT IS REQUIRED IN THIS AREA.
11. 16mm # ASTM A325W ANCHOR BOLT TO BE DRILLED AND GROUTED IN PLACE IN ACCORDANCE WITH THE REQUIREMENTS OF SUB-SECTION 526-3.02. GROUTING MATERIALS SHALL BE IN ACCORDANCE WITH MATERIALS SUB-SECTION 701-07 ANCHORING MATERIALS-CHEMICALLY CURING. HOLES TO BE DRILLED TO THE DIAMETER AND DEPTH RECOMMENDED BY THE MANUFACTURER OF THE GROUTING MATERIAL. MIN. DEPTH OF 150mm. THE COST OF THE ANCHORS, INCLUDING DRILLING AND GROUTING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT SYSTEM ITEM.
12. IT IS DESIRABLE TO HAVE THE ARMORED JOINT WITH ITS COMPRESSION SEAL ASSEMBLED IN THE SHOP AND DELIVERED TO THE JOB SITE ALL SET FOR INSTALLATION IN ITS PREFORMED RECESS IN THE STRUCTURAL SLAB. IN CASES WHERE THE ARMORED JOINT CANNOT BE ASSEMBLED IN THE SHOP, DUE TO ITS EXCESSIVE LENGTH CAUSING SHIPPING PROBLEMS, THE JOINT SHALL BE SEALED WITH THE COMPRESSION SEAL BEFORE THE STRUCTURE IS OPENED TO TRAFFIC INCLUDING CONSTRUCTION TRAFFIC, AND BEFORE DIS CONTINUING OPERATIONS WHEN WORK IS SUSPENDED DURING THE WINTER.



MODIFIED ARMORED COMPRESSION JOINT DETAIL

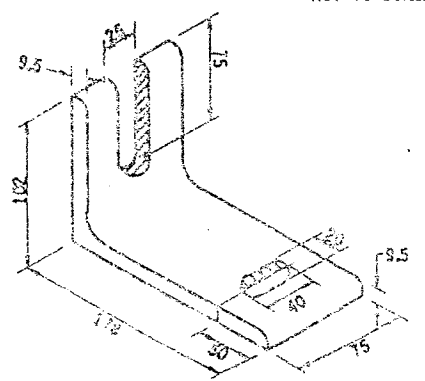
FOR INSTALLATION LOCATIONS SEE JOINT TABLE

NOT TO SCALE



DETAIL OF HEADED CONCRETE ANCHOR STUD

NOT TO SCALE

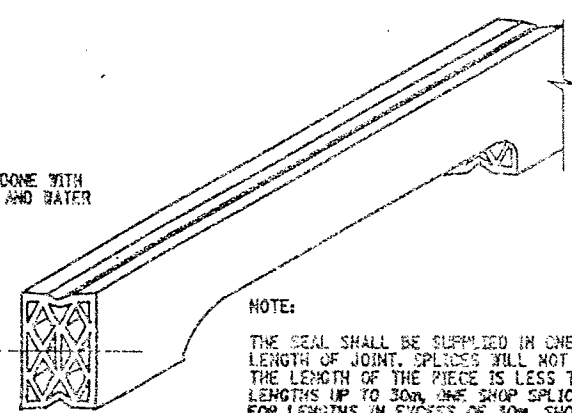


DETAIL OF CLIP ANGLE

NOT TO SCALE

NOTE:
ALL CUTTING TO BE DONE WITH A COPING SAW, SOAP AND WATER

DO NOT CUT SEAL ABOVE THIS LINE



DETAIL FOR CUTTING SEAL

NOT TO SCALE

EPOXY POLYSULFIDE GROUT NOTE:

CONTRACTOR MAY WITH THE APPROVAL OF THE ENGINEER USE MATERIAL SPECIFICATION 721-03 EPOXY POLYSULFIDE GROUT, AT THE RECESSES, INSTEAD OF THE 12 HOUR CONTINUOUS PREWETTING REQUIREMENTS (PROJECT PROPOSAL). CONTRACTOR MUST ENSURE PROPER CONSTRUCTION PRACTICES ARE FOLLOWED WHEN USING THIS GROUT. THE USE OF EPOXY POLYSULFIDE GROUT SHALL BE AT NO ADDITIONAL COST TO THE STATE.

SEALS (mm)			ARMORED JOINT SYSTEM	
TYPE	NOMINAL WIDTH	DIM. "A" @ 20°C.	TYPE	END CONDITION
1	44	25	A1	Fixed End Only
2	51	30	A2	Exp. up to 18 m
3	64	38	A3	Exp. over 18 m to 23 m
4	76	44	A4	Exp. over 23 m to 27 m
5	89	52	A5	Exp. over 27 m to 38 m
6	102	60	A6	Exp. over 38 m to 46 m

Maximum Skew Limit: Fixed End - No Limit
Exp. End - 45° A2 thru A6

LIST OF ITEMS USED:

- ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)
- ITEM 555.0202M - EPOXY COATED BAR REINF. FOR STRUCT. (CM)
- ITEM 567.31M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (m)
- ITEM 567.32M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (m)
- ITEM 567.35M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m)
- ITEM 567.36M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m)
- ITEM 18567.46M - ELASTOMERIC CONC. FOR BRIDGE JT. SYSTEMS 60
- ITEM 586.01M - DRILL & GROUT REINF. BARS (mm)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE DATE

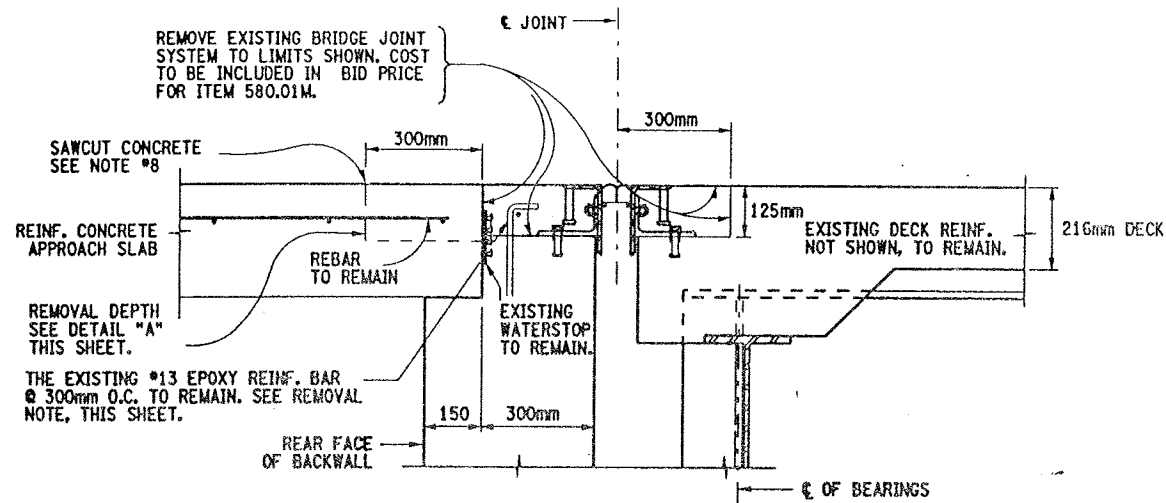
INTERSTATE 481
COMPRESSION SEAL JOINT DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

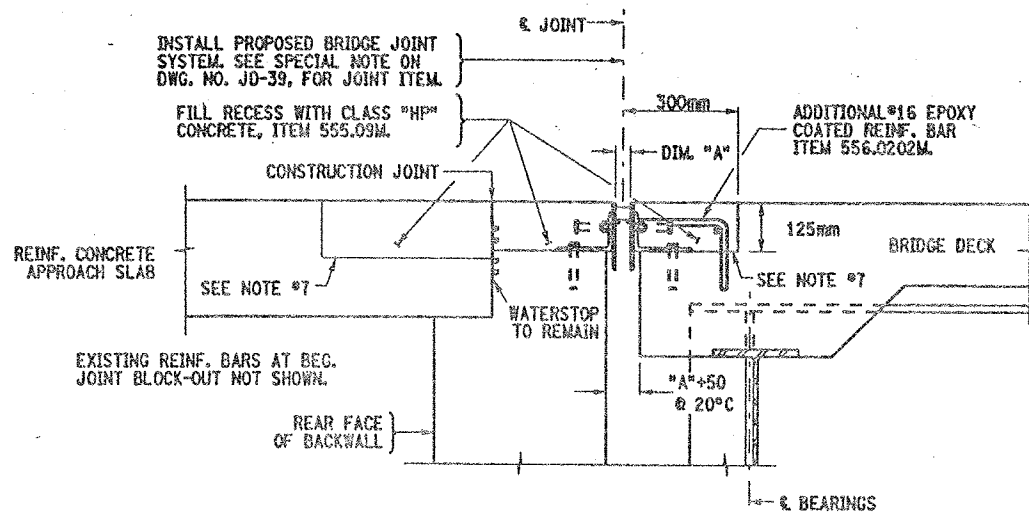
FILENAME REGION DATE DRAWING NO.
305613AJJAJ1 3 10/02 JD-1

BIN 1072701 - BEG. ABUT. SHOWN
END ABUT. SIMILAR

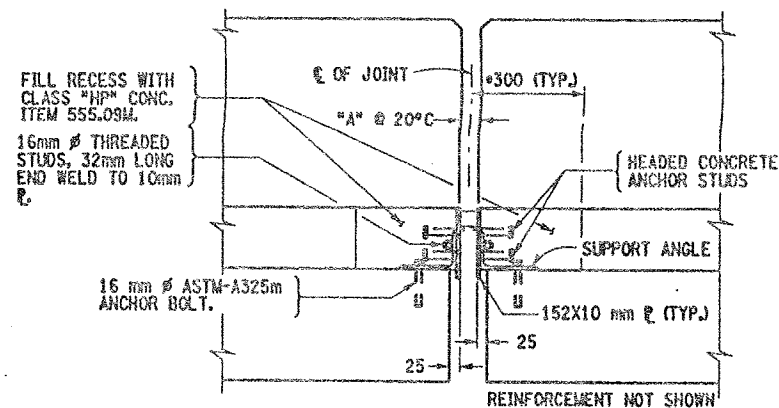
CHECKED BY
DRAFTED BY
ESTIMATED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR



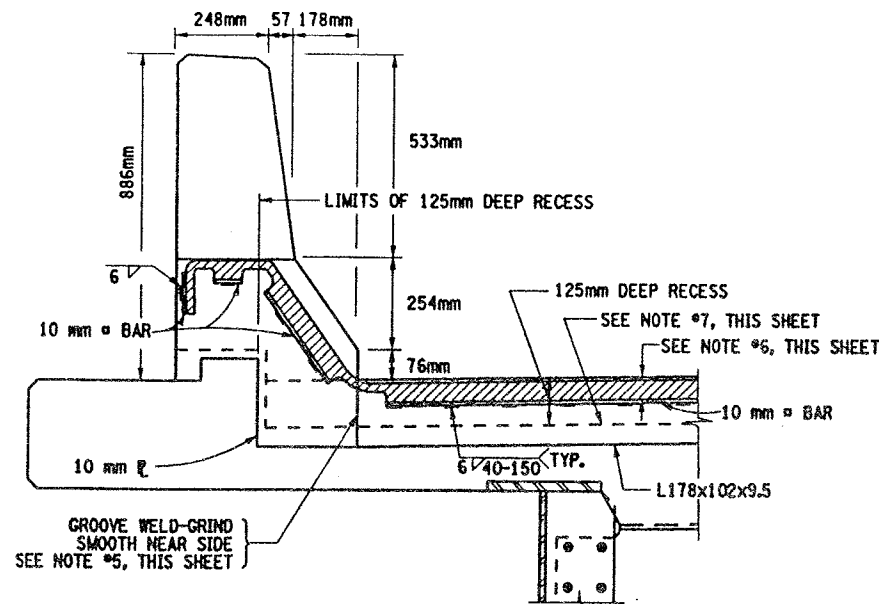
SECTION A-A
EXISTING ABUTMENT JOINT
NOT TO SCALE



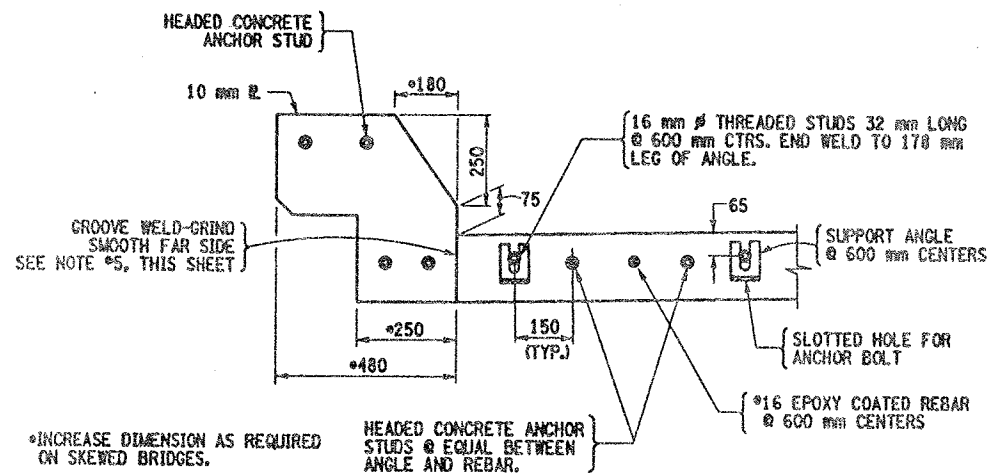
PROPOSED ABUTMENT JOINT
SECTION B-B
NOT TO SCALE



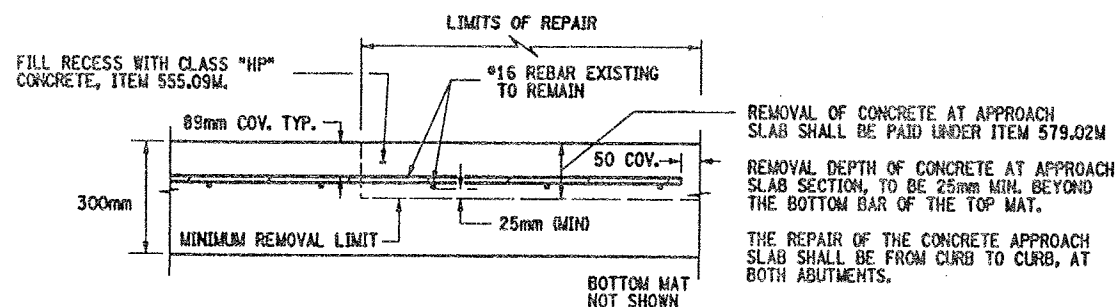
PROPOSED PIER JOINT
SECTION E-E
NOT TO SCALE



PROPOSED ABUTMENT JOINT
SECTION C-C (CONCRETE TRAFFIC BARRIER)
(REFER TO DWG. NO. JD-42 FOR OPPOSITE FASCIA DETAIL)
NOTE, CONCRETE ITEMS DIFFER.
NOT TO SCALE



PROPOSED ABUTMENT JOINT
SECTION D-D (CONCRETE TRAFFIC BARRIER)
(ONLY THE STEEL SHOWN)
NOT TO SCALE



APPROACH SLAB REPAIR
DETAIL "A"
NOT TO SCALE

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	404	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1072781	

REMOVAL NOTE:

EXISTING EPOXY COATED REINF. BARS ENCOUNTERED AT THE JOINT BLOCK-OUTS, SHALL REMAIN. CARE SHALL BE TAKEN DURING REMOVAL OPERATIONS, NOT TO DAMAGE THE REINFORCEMENT BARS.

PRIOR TO PLACEMENT OF NEW CONCRETE THE EXISTING EPOXY BARS SHALL BE CLEANED AND ANY FIELD REPAIRS DEEMED NECESSARY BY THE ENGINEER, BE MADE AS PER SECTION 556-3.02(C) OF STANDARD SPECIFICATIONS. TO BE INCLUDED IN PRICE BID FOR ITEM 580.01M.

NOTES:

1. ACTUAL BRIDGE JOINT BLOCK-OUT DIMENSIONS MAY VARY. REMOVAL LIMITS SHALL BE TO EXISTING BLOCK-OUT LOCATIONS, ABOVE.
2. EXISTING WATERSTOPS SHALL REMAIN.
3. FOR CALCULATION OF "A" DIMENSION REFER TO DWG. NO. JD-1.
4. REFER TO DWG. NO. JD-39 FOR PROPOSED PARTIAL PLAN VIEWS.
5. ALL WELDS SHALL BE GROUND SMOOTH TO THE SATISFACTION OF THE ENGINEER, ON SEAL CONTACT SIDE OF EDGE BEAM.
6. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS NOMINAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6 mm NOR MORE THAN 19 mm BELOW THE TOP OF ROADWAY.
7. RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACES AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE FOR 12 HOURS. NOTE, THE USE OF MATERIAL SPECIF. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, (PROJECT PROPOSAL).
8. SAWCUT CONCRETE APPROACH SLAB TO PRODUCE NEAT REMOVAL LINES, COST BE TO INCLUDED IN PRICE BID FOR ITEM 579.02M.
9. THE CONCRETE REMOVAL AT THE APPROACH SLAB SHALL CONFORM TO STANDARD SPECIF. 579-3.02, TO BE PAID UNDER ITEM 579.02M. (AT APPROACH SLABS ONLY)

ITEMS USED:

- ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)
- ITEM 555.0202M - EPOXY-COATED BAR REINF. FOR STRUCT. (Kg)
- ITEM 579.02M - REINFORCED BAR EXPOSURE (SM)
- ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 SB
OVER
TOTMAN ROAD
BRIDGE JOINT DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.
305613A/JAI 3 10/02 JD-40

Asbestos Sampling Survey

Location:

BIN 1072781

Interstate Route I-481 South Bound
over Totman Road

Prepared for:

New York State
Department of Transportation

PIN 3056.13.111

LaBella Project No. 201001

August 2001

Table of Contents

Page

I.	Project Summary	1
II.	Site Description	1
III.	Inspection Procedures	1
IV.	Results	2
	Certification	2

Figures and Table

I. Project Summary

In accordance with conditions of Term Agreement D012606, LaBella Associates, P.C. conducted an asbestos sampling survey of the Interstate Route I-481 south bound bridge over Totman Road. Based on laboratory analyses of bulk samples collected, no asbestos-containing materials were identified.

II. Site Description

The Site is located in Onondaga County, New York. For the purpose of this report, the Site consists of the Interstate Route I-481 south bound bridge over Totman Road. (See attached FIGURE 1 - Site Location Map).

III. Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 3 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints, which might affect the removal of the ACM, were identified and reported.
- C. Bulk samples of suspected ACM were collected during the site inspection of the subject structure. Samples were taken from each homogeneous area that may contain ACM.
- D. Samples were submitted for analysis. Preliminary PLM analyses of NOB materials were performed by LaBella Laboratories, a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. TEM analyses of NOB materials, if necessary, were performed by AMA Analytical, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.
- F. A drawing of the structure at the Site was created, in order to show sample locations and the approximate locations and amounts of confirmed ACM observed in accessible locations.

Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by LaBella Associates to determine the presence of underground utilities on or in the immediate vicinity of the Site. Actual sample locations are shown in the attached FIGURE 2. Results of bulk sample analyses are tabulated in the attached TABLE.

IV. Results

BIN 1072781 Interstate Route I-481 South Bound over Totman Road

Based on laboratory analyses of bulk samples collected, no asbestos-containing materials were identified.

Certification

LaBella Associates, P.C. certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this investigation.

Figures & Table

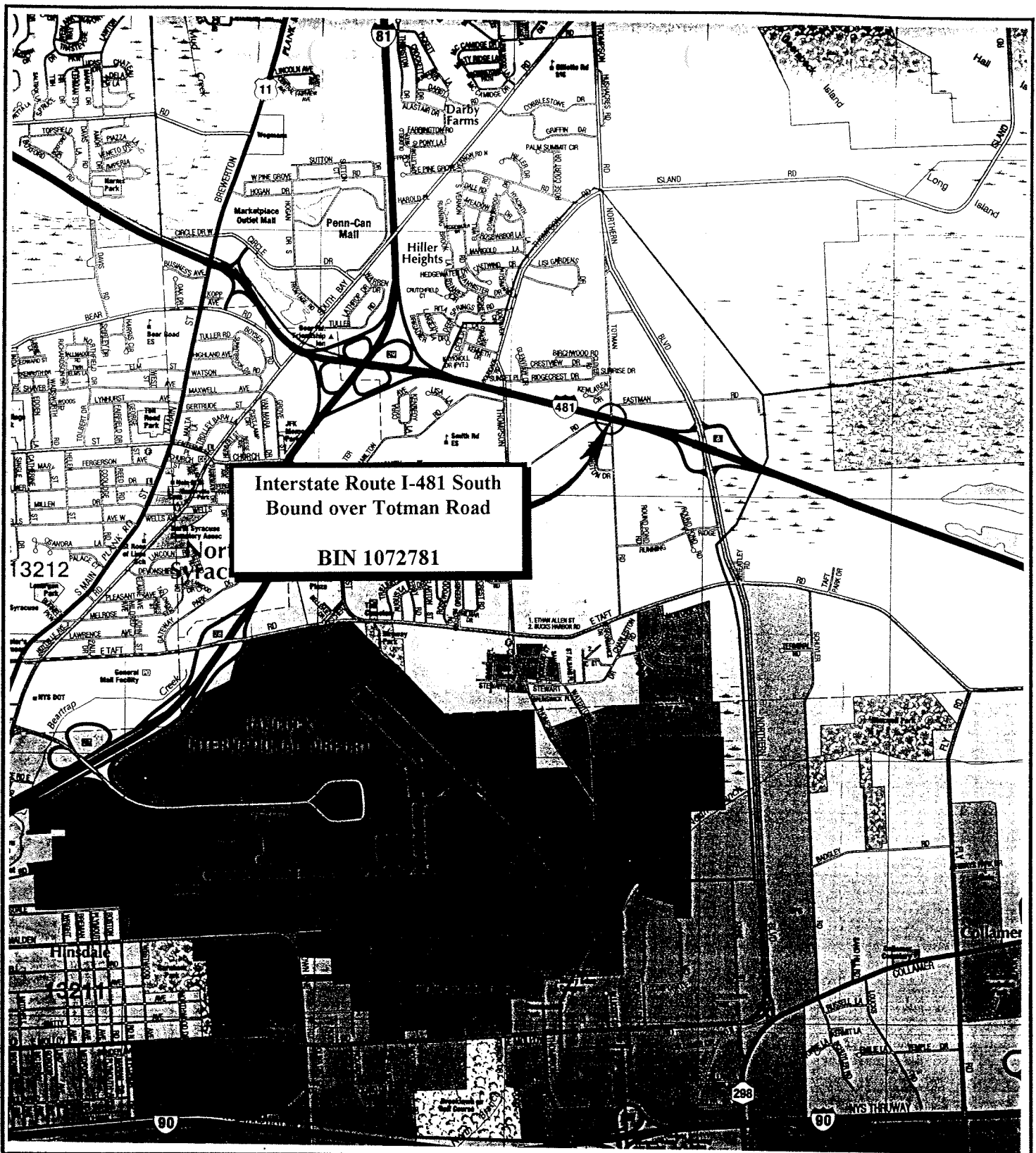
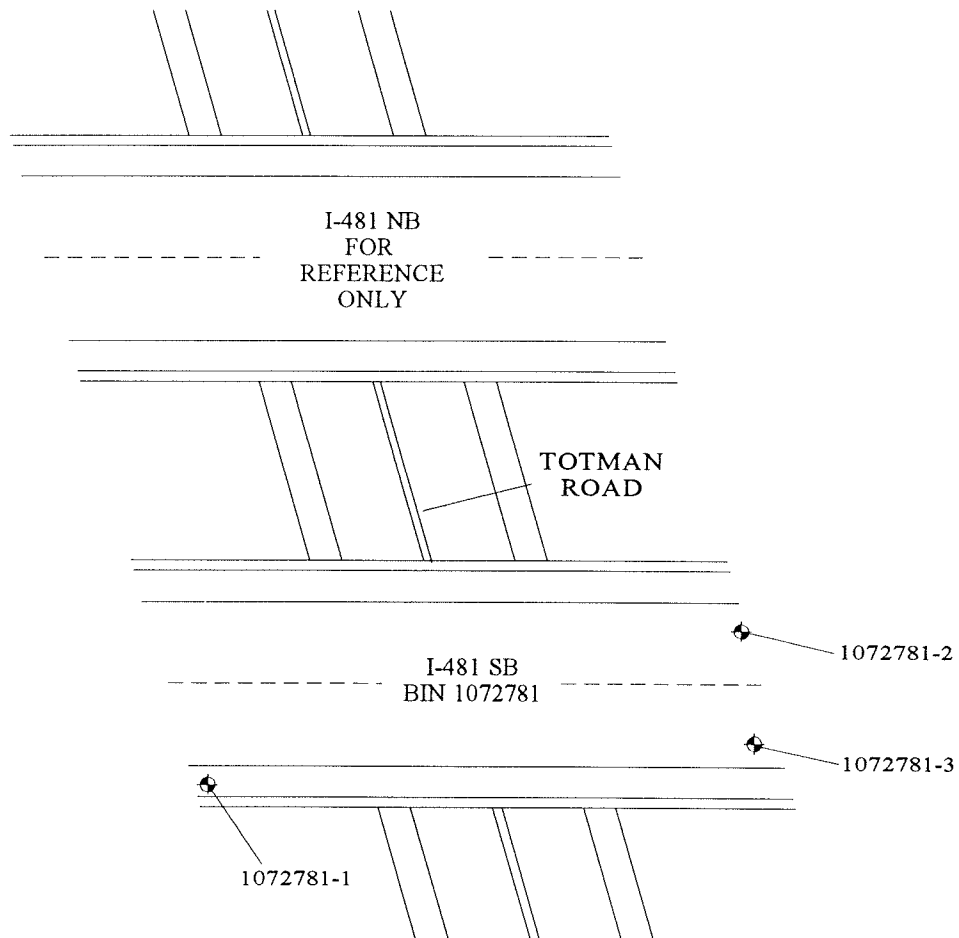


FIGURE 1
Site Location Map

**Interstate Route I-481 South Bound
over Totman Road
Onondaga County, New York**

LABELLA

PROJECT NO. 201001



NOTE: NO ASBESTOS-CONTAINING MATERIALS IDENTIFIED.

LEGEND

◆ 1072781-1 SAMPLE LOCATION



NORTH

PROJECT TITLE: ASBESTOS SAMPLING SURVEY
19 BRIDGES ALONG INTERSTATE I-481
ONONDAGA COUNTY, NEW YORK

PROJECT NO. 201001

PIN 3056.13.111

FIGURE TITLE: FIGURE 2 BIN 1072781
I-481 SB OVER TOTMAN ROAD
SAMPLE LOCATIONS &
CONFIRMED ACM

NOT TO SCALE

DATE: AUGUST, 2001

Bulk Sample Results Table

Asbestos Sampling Survey
BIN 1072781
Interstate Route I-481 South Bound
over Totman Road
Onondaga County, New York
LaBella Project # 201001
PIN 3056.13.111

Sample #	Sample Location	Type of Material	Results % Asbestos	Amount of Material	Specification Item No.
1072781-1	West End of Bridge at Base of Fence	Gray Caulking Compound	None Detected	N/A	N/A
1072781-2	East End of Bridge Beneath Bearing	Bearing Pad	None Detected	N/A	N/A
1072781-3	East End of Bridge on Back Wall	Gray Masonry Coating	None Detected	N/A	N/A

BIN 1072791

I-481 SB over Thompson Road

BIN 1072791

Location: I-481 SB over Thompson Road

NYSDOT D031085 PIN 3501.60 - I-81 Viaduct Replacement or New Urban Arterial

City of Syracuse, Onondaga County

Bridge Asbestos Assessment Results

No asbestos containing materials have been identified on this bridge.

The following summarizes the results of the most recent asbestos survey and record plan review.

Watts Inspection Findings (December 2013)

A bridge inspection was completed on 12/11/2013 and the following suspect ACMs were identified and sampled:

- Bearing pad
- Grey masonry paint
- Grey expansion joint caulk

None of these materials came back positive for asbestos.

Review of Bridge Record Plans

Record plans (D250416, D259214) were reviewed in support of the field survey. There were no suspect ACMs identified.

Previous Survey Results

A previous asbestos survey completed by LaBella in 2001 was reviewed in support of this project. No asbestos containing materials were identified.

No additional sampling and materials testing is required for this structure.



Watts Architecture & Engineering

BRIDGE ASBESTOS FIELD INSPECTION FORM

BIN Number/Location: 1072791 (481 SB over Thompson Rd)

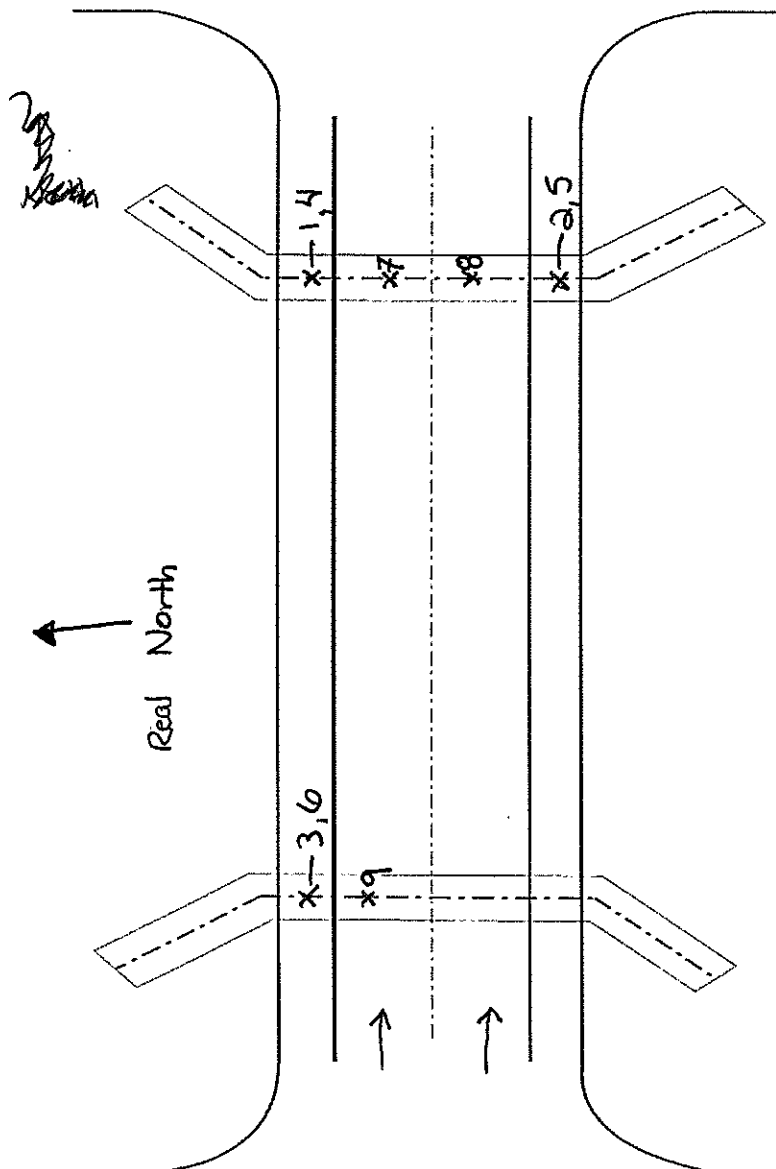
Inspection Date: 12/11/14

Project Name: I-81 Viaduct Replacement or New Urban Arterial

PIN Number: PIN: 3501.60, D031085

Inspector(s): W. Koch

Watts Project No: 13092



Field Inspection Checklist			
Item	Investigated	Present	Sampled
Girder Paint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Truss Paint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abutment Coating	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Abutment Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abut. Exp. Jt. Filler	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headwall Sheet Packing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearing Pad	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Transite Pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pipe Coating/Wtr. Proof	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scupper Wtr. Proof	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dum Dum Paint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deck Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deck Exp. Jt. Filler	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Approach Sheet Packing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Railing Paint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Railing Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sidewalk Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lighting Pole Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Masonry Castings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Miscellaneous Tar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Utilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4-6

7-9

1-3

SAMPLE LOCATION PLAN VIEW - N.T.S.

Notes: Grey caulk in exp. joints sampled
No paint found on steel under deck
Bearing pad sampled
No sheet packing

**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>buffalolab@emsl.com

EMSL Order: 141400418

CustomerID: WATT50A

CustomerPO:

ProjectID:

Attn: **Scott Matthews**
Watts Architecture & Engineering
2610 Salina Street
Syracuse, NY 13205

Phone: (315) 443-8611
 Fax: (315) 443-8605
 Received: 02/04/14 10:00 AM
 Analysis Date: 2/9/2014
 Collected: 12/11/2013

Project: 13092 - 181 Viaduct Replacement or New Urban Arterial Bin 1072791 - 481 B Over Thompson Rd

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1072791-1 141400418-0001		Description bearing pad Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Black			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Black			None Detected
Sample ID 1072791-2 141400418-0002		Description bearing pad Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Black			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Black			None Detected
Sample ID 1072791-3 141400418-0003		Description bearing pad Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Black			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Black			None Detected
Sample ID 1072791-4 141400418-0004		Description grey masonry paint Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Gray			None Detected
Sample ID 1072791-5 141400418-0005		Description grey masonry paint Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Gray			None Detected

**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>buffalolab@emsl.com

EMSL Order: 141400418

CustomerID: WATT50A

CustomerPO:

ProjectID:

Test Report: Asbestos Analysis of Bulk Material

Non Asbestos			
Test	Color	Fibrous	Non-Fibrous
Sample ID	Description	Homogeneity	Asbestos
1072791-6 141400418-0006	grey masonry paint	Homogeneous	
PLM NYS 198.1 Friable			Not Analyzed
PLM NYS 198.6 VCM			Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray	Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Gray	None Detected
Sample ID	Description	Homogeneity	
1072791-7 141400418-0007	grey expansion joint caulk	Homogeneous	
PLM NYS 198.1 Friable			Not Analyzed
PLM NYS 198.6 VCM			Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray	Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Gray	None Detected
Sample ID	Description	Homogeneity	
1072791-8 141400418-0008	grey expansion joint caulk	Homogeneous	
PLM NYS 198.1 Friable			Not Analyzed
PLM NYS 198.6 VCM			Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray	Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Gray	None Detected
Sample ID	Description	Homogeneity	
1072791-9 141400418-0009	grey expansion joint caulk	Homogeneous	
PLM NYS 198.1 Friable			Not Analyzed
PLM NYS 198.6 VCM			Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray	Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Gray	None Detected

Analyst(s)

Rachel Giese

Rhonda McGee

Rhonda McGee, Laboratory Manager
or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.

All samples examined for the presence of vermiculite when analyzed via NYS 198.1.

-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606

WATTS ARCHITECTURE & ENGINEERING, P.C.
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

141400415

Page: 1 of 1
Date: 12/11/13

Client: C&S / DOT
Project: 181 Viaduct Replacement or New Urban Arterial
Building / Location: BIN 1072791 (481 EB over Thompson Rd)
Contact: Scott Matthews at (315) 443-8611
Email Preliminary Results to: smatthews@watts-ae.com
Mail Invoice to: Accounts Payable
Watts Architecture & Engineering, P.C.
95 Perry Street, Buffalo, NY 14203

Watts Project No.: 13092
Turnaround Requested: 3 Hr. 48 Hr.
Analysis Requested: 6 Hr. 72 Hr.
PLM X TEM X 12 Hr. X 5 Day 1 week
24 Hr. 6-10 Day 2m 2/4/14
Mail Report to: Scott Matthews
Watts Architecture & Engineering, P.C.
2610 S Salina Street, Syracuse, NY 13210

Sample Number	Material Description	Sample Location	Laboratory Results	
			PLM	TEM
1072791-1	Bearing pad	East side of bridge		
2	" "	East side of bridge		
3	" "	West side of bridge		
4	Grey masonry paint	East side of bridge		
5	" "	East side of bridge		
6	" "	West side of bridge		
7	Grey expansion joint caulk	East exp. joint		
8	" "	East exp. joint		
9	" "	West exp. joint		

Sampled By: Scott Matthews / Will Koch Date: 2-3-14 Received By: [RECEIVED] Date:
Relinquished By: Scott Matthews to FedEx Date: Received By: FEB 04 2014 Date:
Comments: BY: [Signature] 109 Feb 4

BIN 1072791 Inspection Photos

I-481 SB over Thompson Road

Photo 1



Photo 2



Photo 3



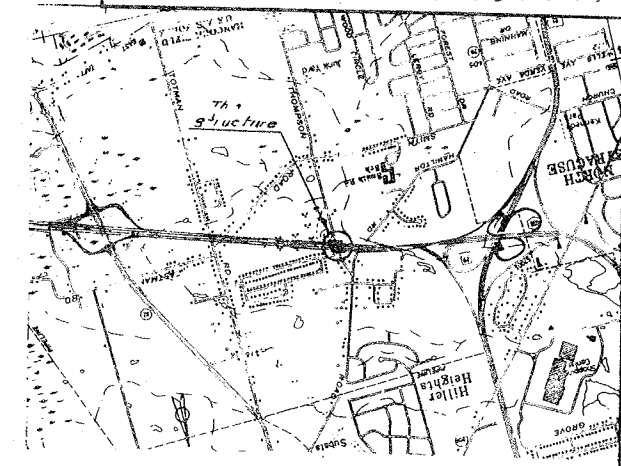
Photo 4



V R. Engle (TY) 11-12-78

FED. RD. PROJ. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	1-481-2(154)	278	380
INTERSTATE RTE. 570 EXTENSION (I-481) NORTHERN BLVD. TO BEAR ROAD INTERCHANGE ONONDAGA COUNTY				
CAPITAL PROJECT IDENTIFICATION NO. 3109.02 (1)				

1072791
SB



LOCATION MAP
SCALE 1"=200'
CLOSED QUADRENNIAL

BIN 1072791 (Br. II) & BIN 1072792 (Br. IO)	
INVENTORY RATING	OPERATING RATING
HS 23(42T)(W.S.)	HS 47(85T)(W.S.)

The ratings shown are based on the use of the Type 2 Form System-See Dwg. No. 21 of 38.

Record plans were reviewed on 12-18-13 by GA. No suspect asbestos materials were identified.

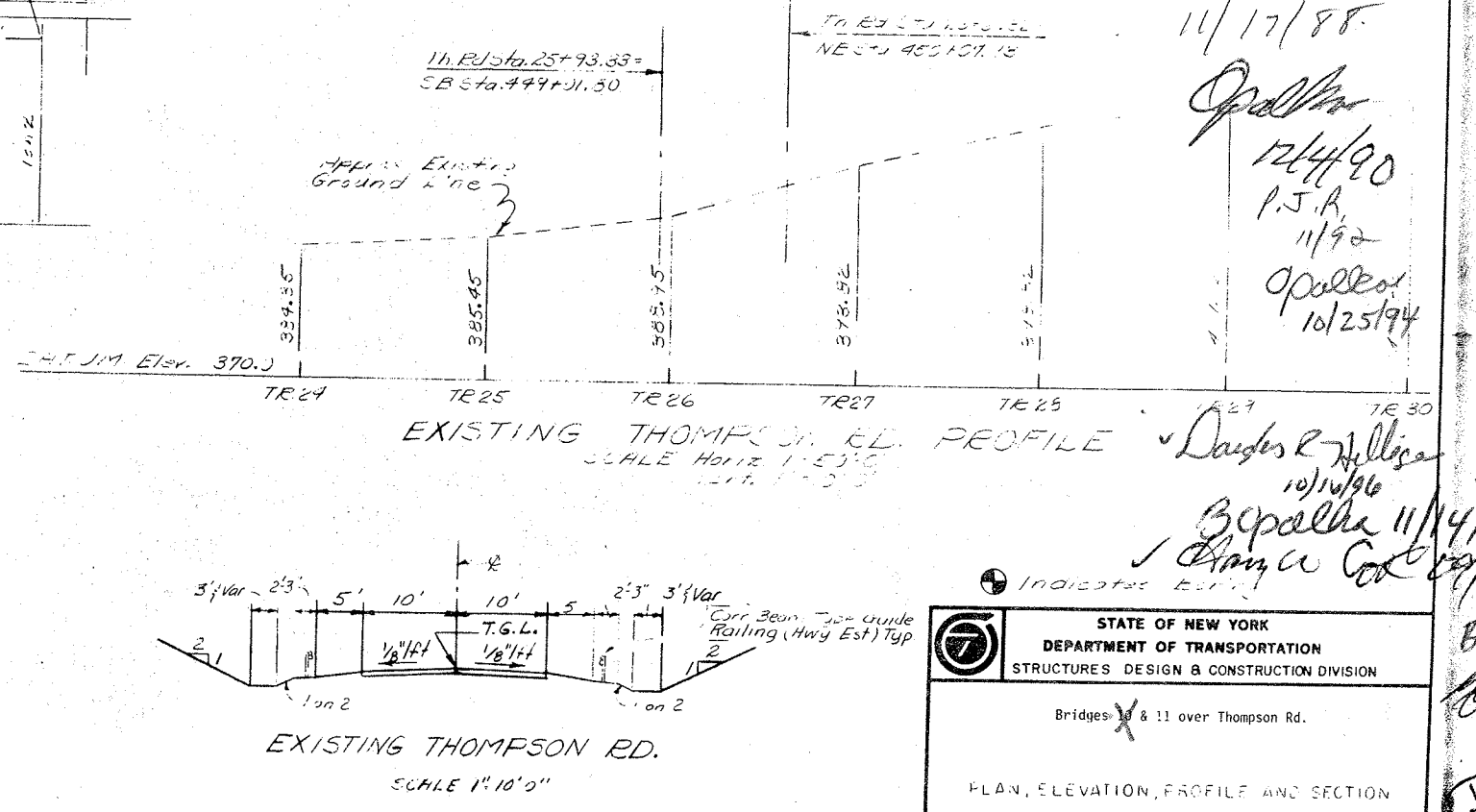
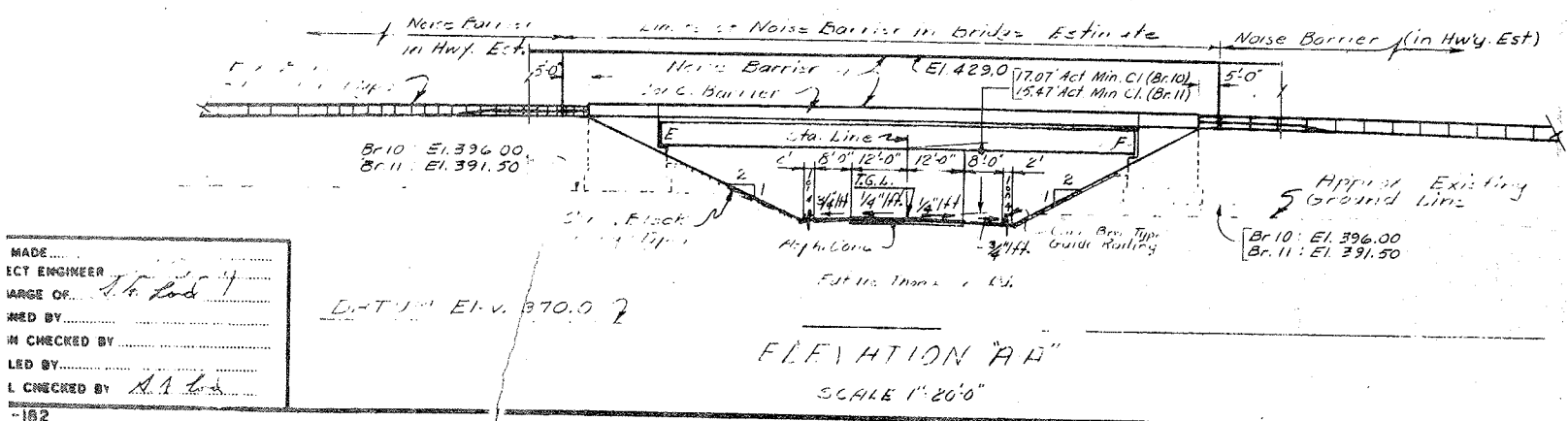
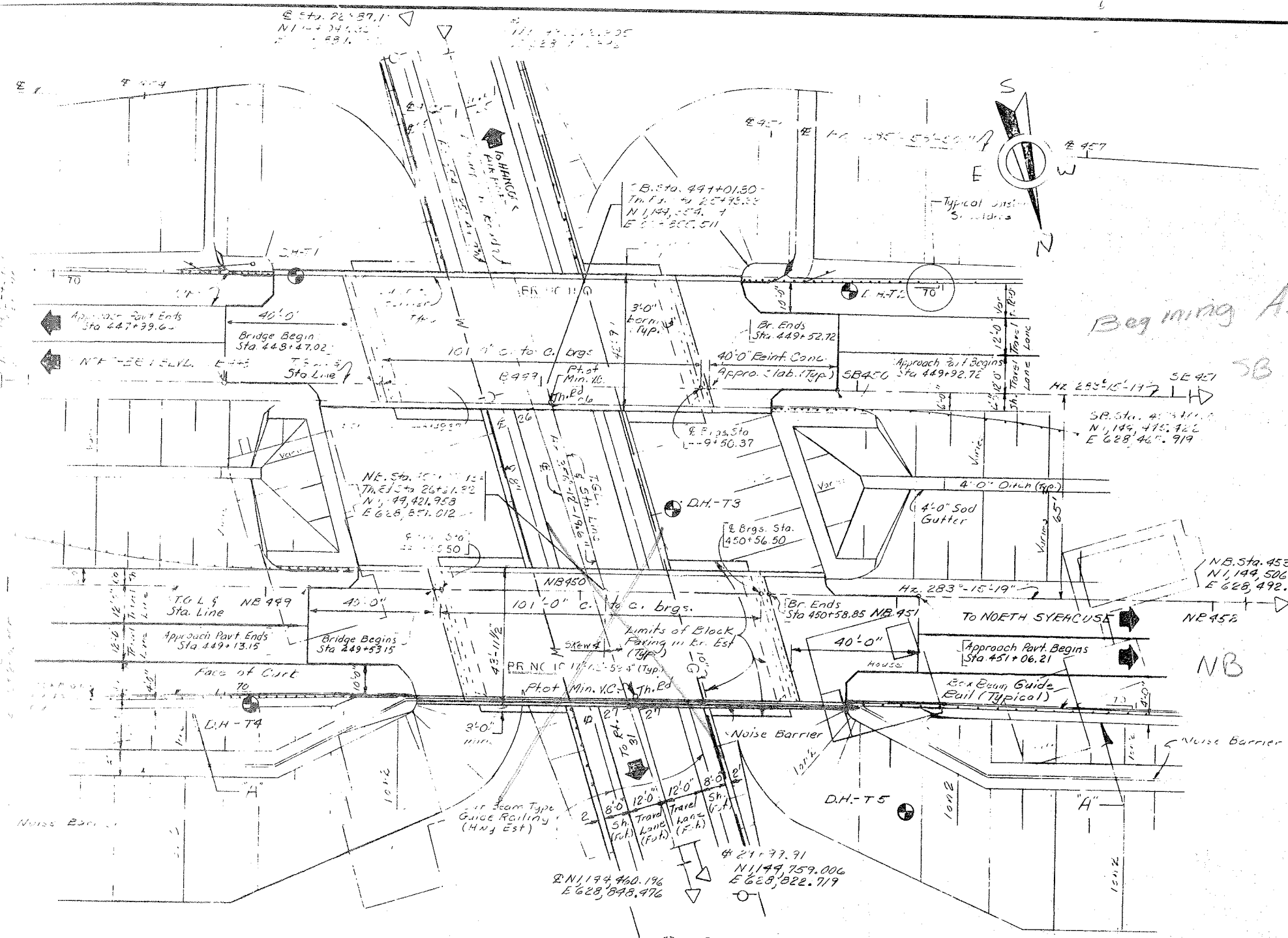
TEAM LEADER B. G. G. G.
DATE 5/87
FIELD VERIFIED V. R. Engle

11/17/88

12/4/90
P.J.R.
11/92
Opallos
10/25/94

David R. Hill
10/10/96

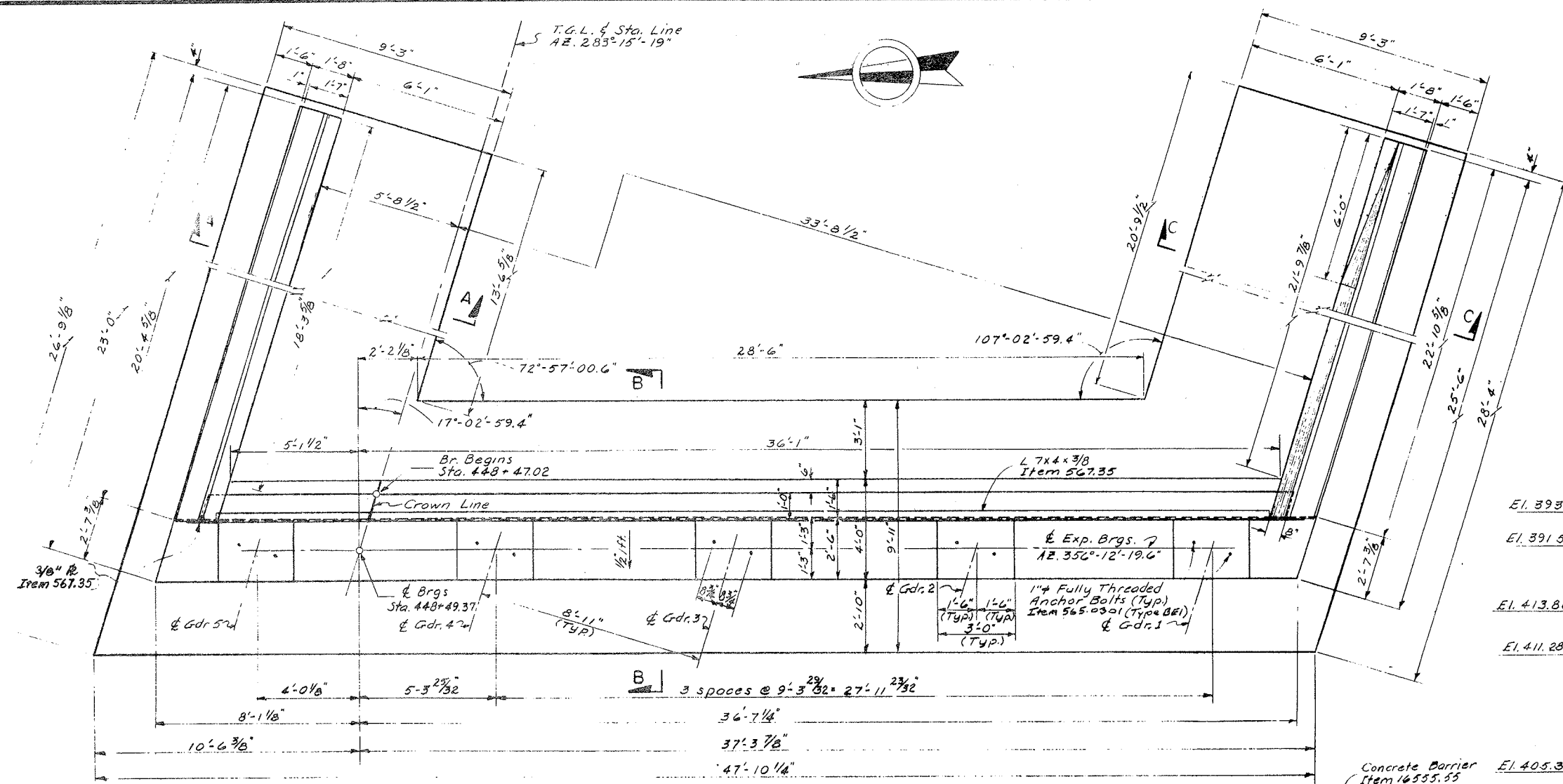
Bopella 11/14/1
D. W. C. C. C.



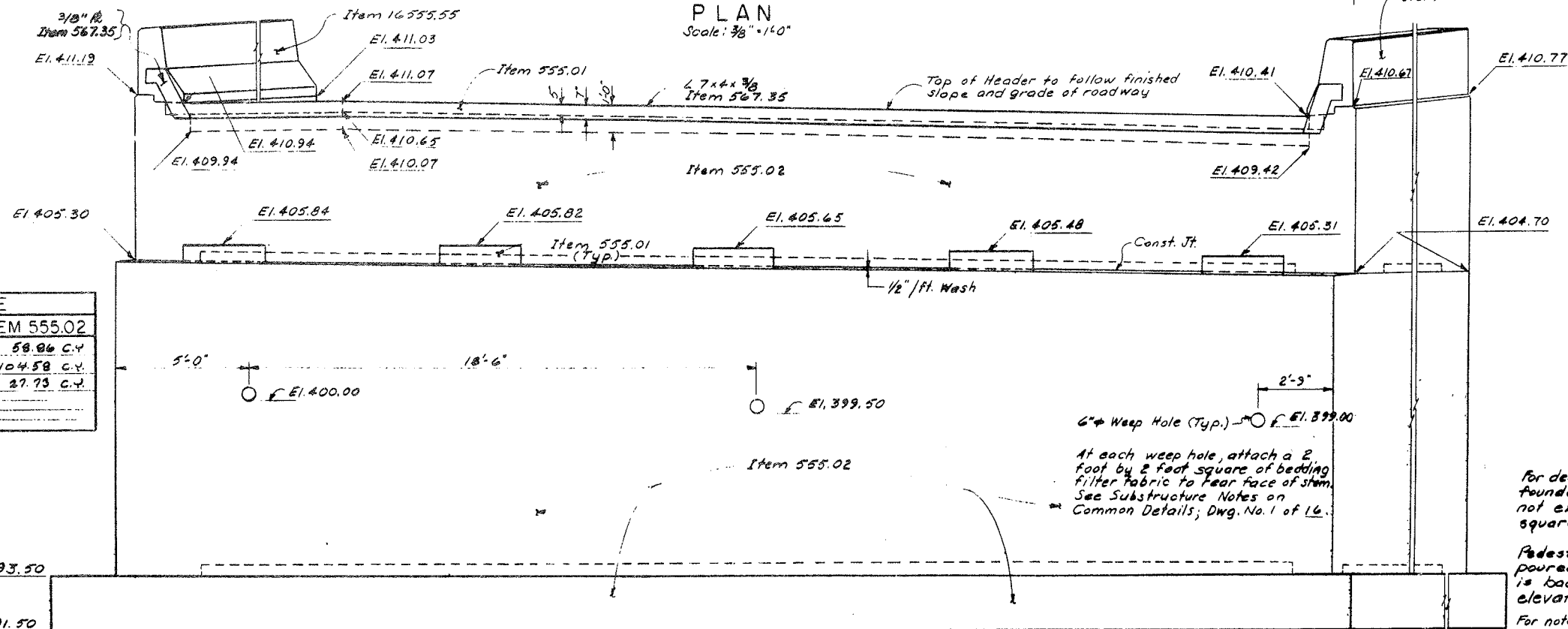
MADE BY: J. R. G. G.
CHECKED BY: J. R. G. G.
LED BY: J. R. G. G.
-182

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN & CONSTRUCTION DIVISION
Bridges 10 & 11 over Thompson Rd.
PLAN, ELEVATION, PROFILE AND SECTION

FED. RD. DIST. NO.	STATE	FEDERAL AID DIST. NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	1B-81-2(154)	284	380
INTERSTATE RTE. 570 EXTENSION (I-481) NORTHERN BLVD. TO BEAR ROAD INTERCHANGE ONONDAGA COUNTY				
CAPITAL PROJECT IDENTIFICATION NO. 3107.00 (01)				

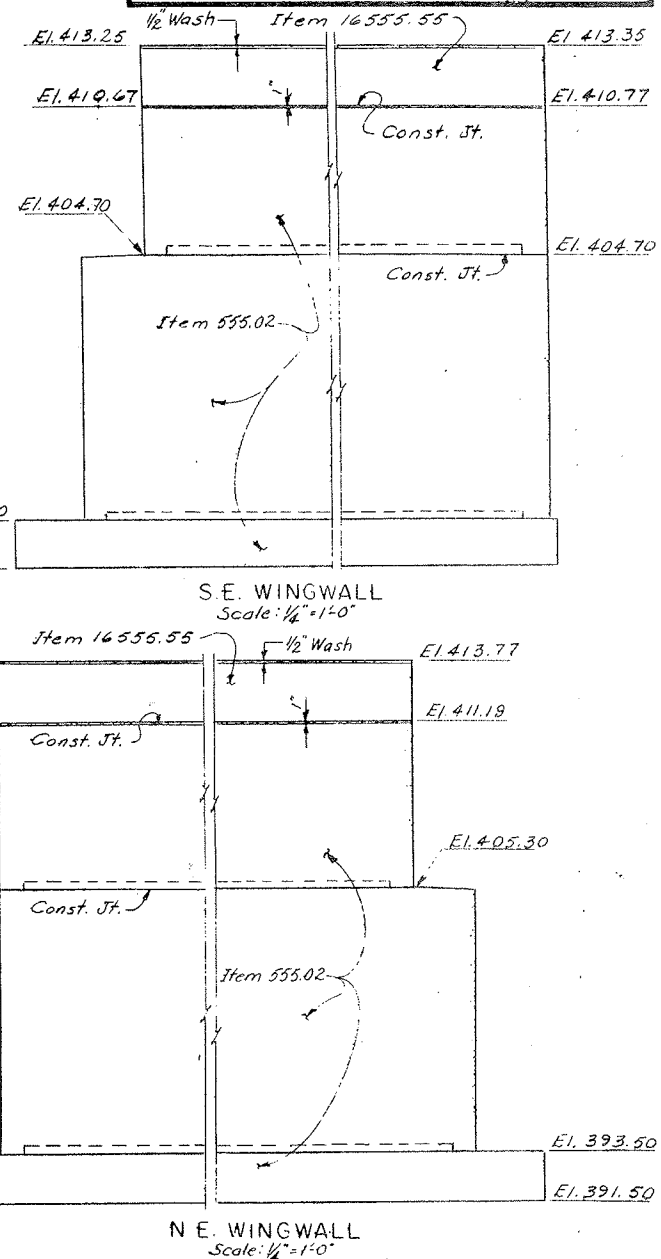


PLAN
Scale: $\frac{3}{8}$ " = 1'-0"



ELEVATION
Scale: $\frac{3}{8}$ " = 1'-0"

CONCRETE TABLE		
POUP	ITEM 555.01	ITEM 555.02
Footings		58.86 C.Y.
Lower Stem		104.58 C.Y.
Upper Stem		27.73 C.Y.
Header	0.66 C.Y.	
Pedestals	0.93 C.Y.	



For Sections A-A thru C-C, see Dwg. No. 9 of 38
 For Keyway Details, see Dwg. No. 9 of 38
 For Concrete Barrier Details, see Dwg. No. 9 of 38
 For details of Bearings, Item 545.030, see Dwg. No. 3 of 16; Common Details.
 For details of Armored Joint System, Item 567.35, see Dwg. No. 19 of 38.

For design purposes, the foundation pressure does not exceed 2 1/2 tons per square foot.

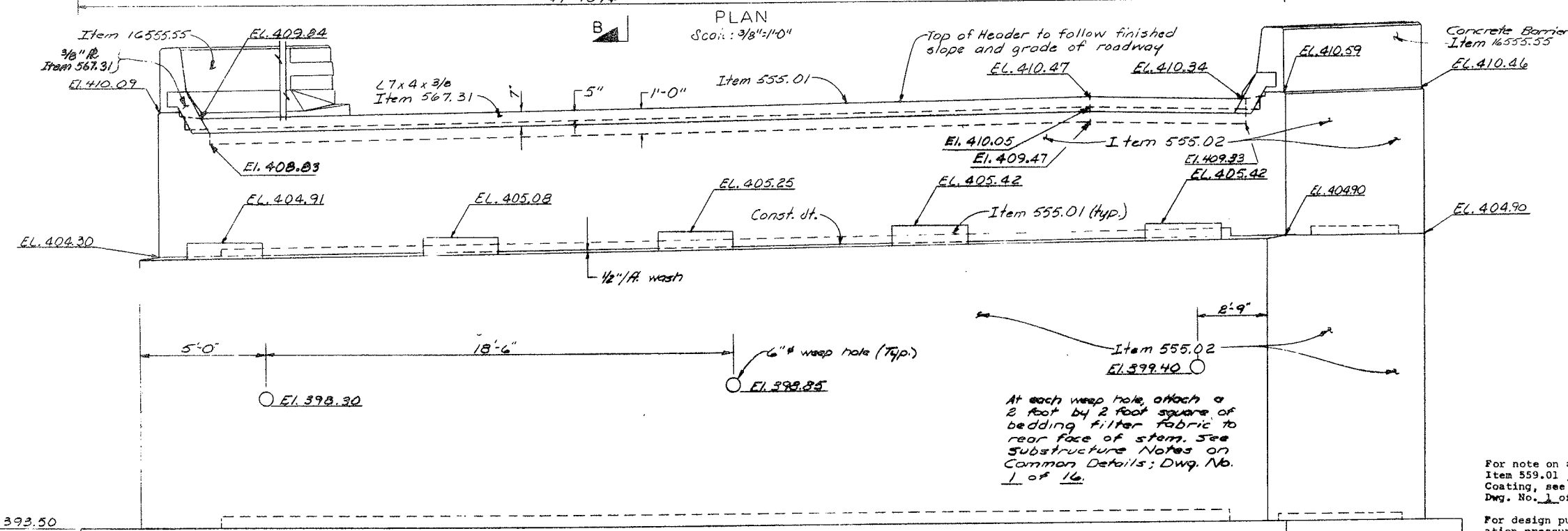
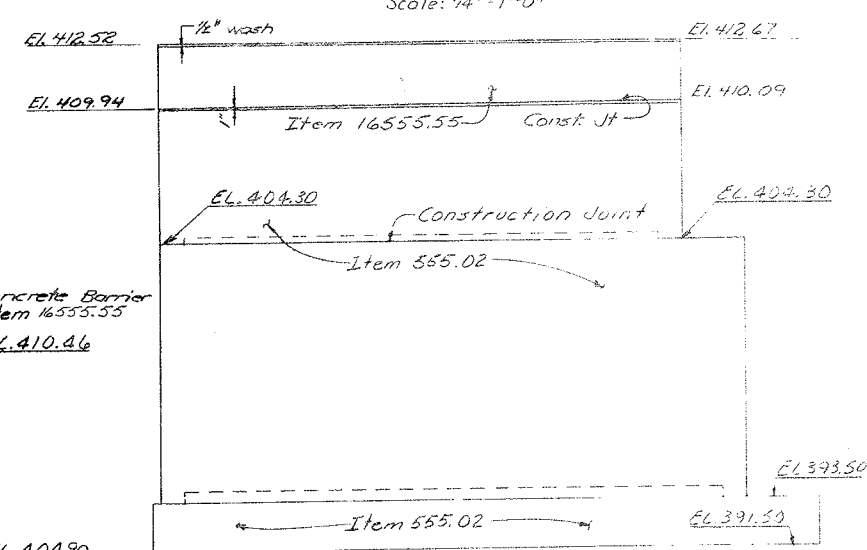
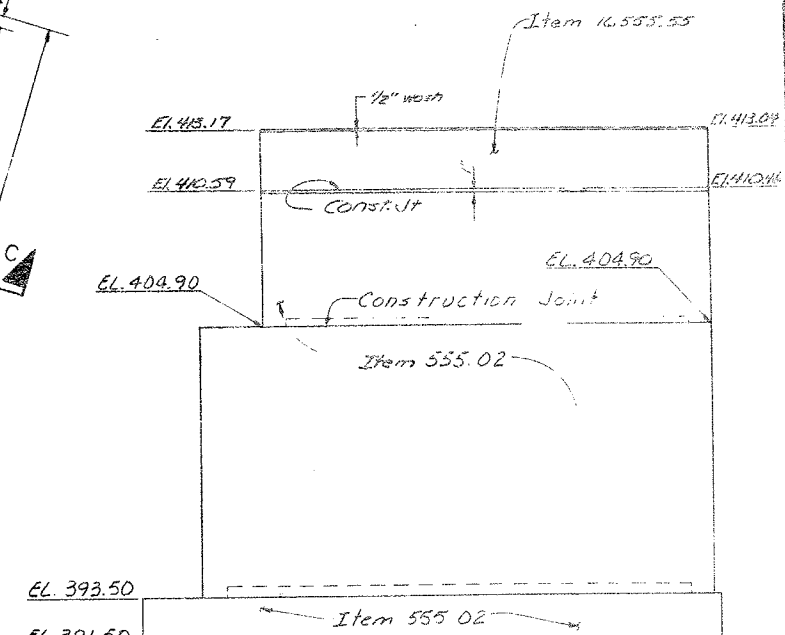
Pedestals shall not be poured until the Abutment is back-filled to subgrade elevation.

For note on application of Item 559.01, Epoxy Protective Coating, see Common Details, Dwg. No. 1 of 16.

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN AND CONSTRUCTION DIVISION	
Bridge 11 over Thompson Rd.	
EAST ABUTMENT - BRIDGE 11	
DESIGNED BY SAND	DATE MADE JAN 1964 DRAWING NO. 7 OF 38

FED. RD. REC. NO.	STATE	FEDERAL AID PROJECT NO.	SHRDT NO.	TOTAL POINTS
	NEW YORK	18-81-2-183	287	380
INTERSTATE RTE. 870 EXTENSION (1-481) NORTHERN BLVD. TO BEAR ROAD INTERCHANGE GEORGIA COUNTY				
CAPITAL PROJECT IDENTIFICATION NO 3107.00 (01)				

CONCRETE TABLE		
POUR	ITEM 555.01	ITEM 555.02
Footing		56.97 C.Y.
Lower Stem		99.84 C.Y.
Upper Stem		32.76 C.Y.
Header	0.66 C.Y.	
Pedestals	0.93 C.Y.	



For Sections A-A thru C-C, see Dwg. No. 12 of 38.
For Keyway Details, see Dwg. No. 9 of 38.
For Concrete Barrier Details, see Dwg. No. 11 of 38.
For details of bearing anchor bolts, see Dwg. No. 3 of 16
of the Common Details.
For details of Armored Joint System, Item 56731, see Dwg.
No. 19 of 38.

For note on application of
Item 559.01, Epoxy Protective
Coating, see Common Details;
Dwg. No. 1 of 16.

For design purposes, the foundation pressure does not exceed

GIRDER	DECK FORM TYPE	GIRDER TABLE										WEB
		A	B	C	D	E	F	G	H	I	J	
1-5	1	16"x1 1/8"	16"x3/4"	16"x3/4"	16"x2"	16"x3/4"	16"x1 1/2"	16"x3/4"	16"x1 1/2"	16"x3/4"	44"x1/2"	
6-9	1	17"x1 1/8"	17"x3/4"	17"x3/4"	17"x2"	17"x3/4"	17"x1 1/2"	17"x3/4"	17"x1 1/2"	17"x3/4"	44"x1/2"	
10	1	17"x1 1/8"	17"x3/4"	17"x3/4"	17"x2"	17"x3/4"	17"x1 1/2"	17"x3/4"	17"x1 1/2"	17"x3/4"	44"x1/2"	
1-5	2	16"x1 1/8"	16"x3/4"	16"x3/4"	17"x2"	17"x3/4"	17"x1 1/2"	17"x3/4"	17"x1 1/2"	17"x3/4"	44"x1/2"	
6-9	2	17"x1 1/8"	17"x3/4"	17"x3/4"	18"x2"	18"x3/4"	18"x1 1/2"	18"x3/4"	18"x1 1/2"	18"x3/4"	44"x1/2"	
10	2	17"x1 1/8"	17"x3/4"	17"x3/4"	18"x2"	18"x3/4"	18"x1 1/2"	18"x3/4"	18"x1 1/2"	18"x3/4"	44"x1/2"	

** Type 1 Forms are removable or integral prestressed concrete.
Type 2 Forms are permanent corrugated metal.

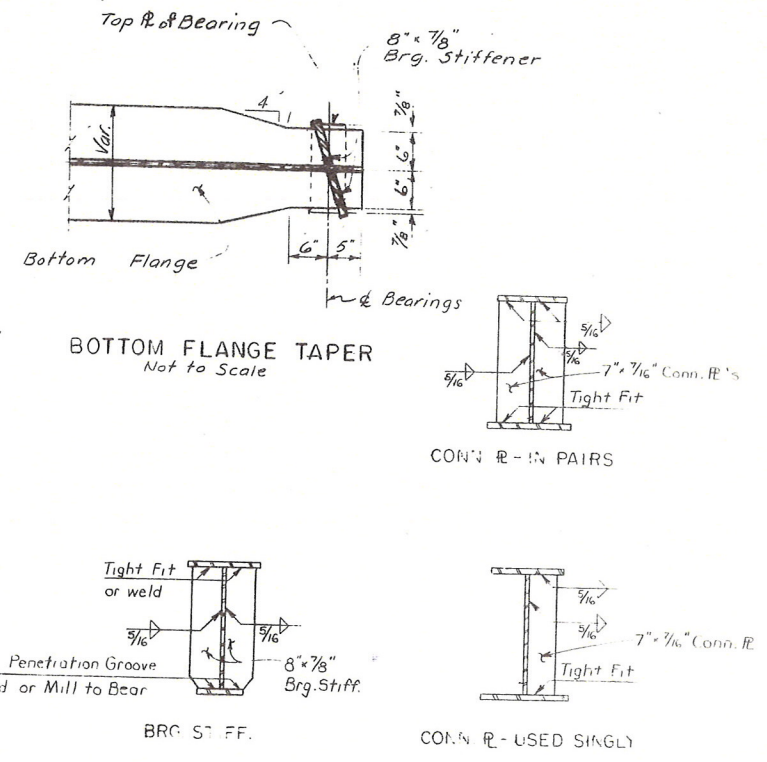
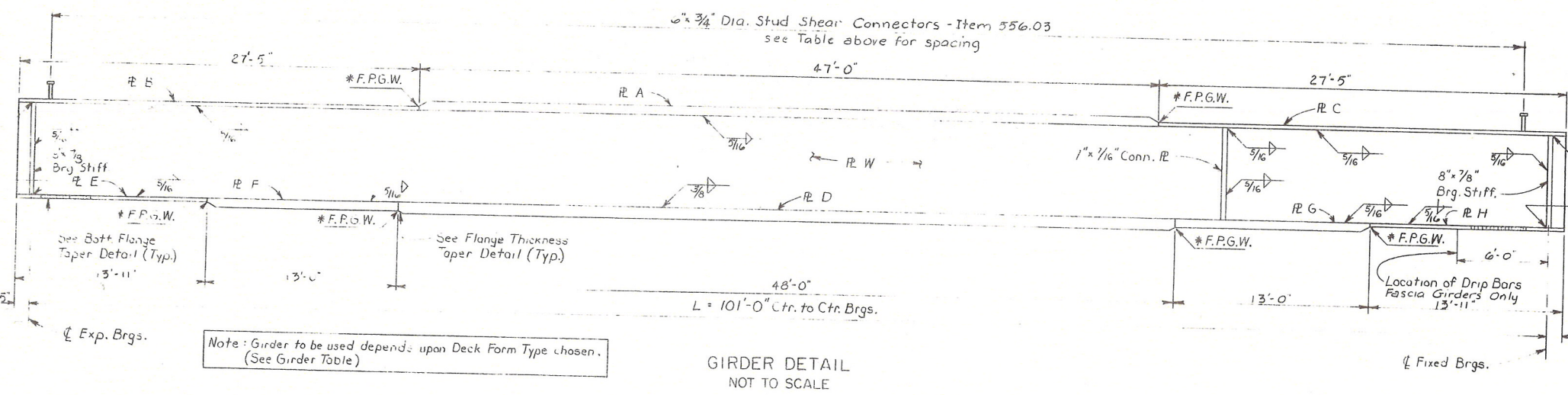
* F.P.G.W. = Full Penetration Groove Weld
M.B. = Mill to Bear

STUD SHEAR CONNECTOR SPACING-ITEM 556.03		
GIRDER	SPACING	TOTAL STUDS
1-5	6'-1" 110 sp. (111 pairs) @ 11" = 100'-10"	1110
6-9	6'-1" 134 sp. (135 pairs) @ 9" = 100'-6"	1080
10	6'-1" 110 sp. (111 pairs) @ 11" = 100'-10"	222

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOT. SHEETS
	NEW YORK	18-81-2(154)	298	38

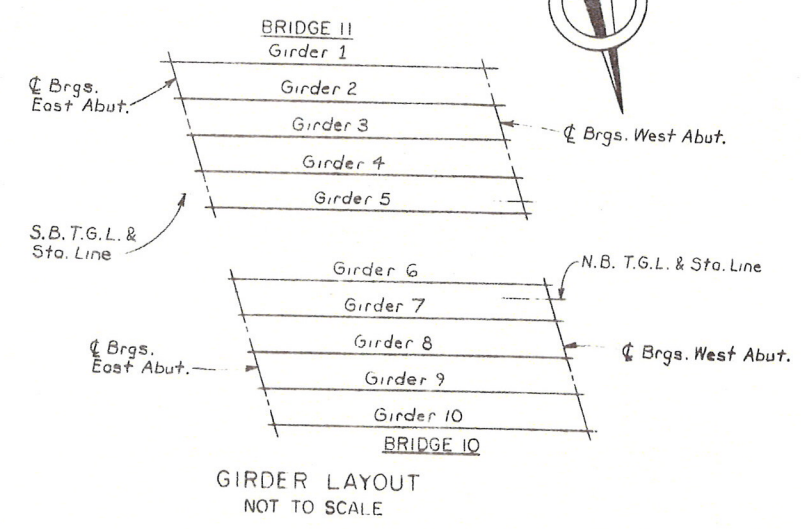
INTERSTATE RTE. 570 EXTENSION (I-481)
NORTHERN BLVD. TO BEAR ROAD INTERCHANGE
ONONDAGA COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 3107.00 (01)



CAMBER TABLE		0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L
GIRDER 1-5	VERTICAL CURVE (FT.)	.01	.01	.02	.02	.02	.02	.02	.02	.01
	STEEL D.L. (FT.)	.02	.04	.05	.06	.06	.06	.05	.04	.02
	CONCRETE D.L. (FT.)	.09	.17	.23	.27	.28	.27	.23	.17	.09
	SUPERIMPOSED D.L. (FT.)	.02	.03	.04	.05	.05	.05	.04	.03	.02
	TOTAL (FT.)	.14	.25	.34	.40	.41	.40	.34	.26	.14
GIRDER 6-9	VERTICAL CURVE (FT.)	.01	.02	.02	.03	.03	.03	.02	.02	.01
	STEEL D.L. (FT.)	.02	.04	.05	.06	.06	.06	.05	.04	.02
	CONCRETE D.L. (FT.)	.09	.16	.23	.26	.28	.26	.23	.16	.09
	SUPERIMPOSED D.L. (FT.)	.02	.03	.04	.05	.05	.05	.04	.03	.02
	TOTAL (FT.)	.14	.25	.34	.40	.42	.40	.34	.25	.14
GIRDER 10	VERTICAL CURVE (FT.)	.01	.02	.02	.02	.02	.03	.02	.01	.01
	STEEL D.L. (FT.)	.02	.04	.05	.06	.06	.06	.05	.04	.02
	CONCRETE D.L. (FT.)	.08	.16	.21	.25	.26	.25	.21	.16	.08
	SUPERIMPOSED D.L. (FT.)	.03	.06	.08	.09	.10	.09	.08	.06	.03
	TOTAL (FT.)	.14	.28	.36	.42	.44	.43	.36	.27	.14

Notes: Tables of Camber, Design Load & Moment and Shear are based upon use of the girder which would be used with Deck Form Type 2. (See Girder Table above.)



- CAMBER NOTES**
- The camber labeled "Vertical Curve" in the table is the camber required to follow the vertical curve.
 - The camber labeled "Steel D.L." in the table is the camber required to offset the deflection due to the dead load weight of the girder as fabricated.
 - The camber labeled "Concrete D.L." in the table is the camber required to offset the deflection due to the dead load weight of the concrete slab.
 - The camber labeled "Superimposed D.L." in the table is the camber required to offset the deflection due to the weight of the curb, sidewalk, railing and future wearing surface.
 - The total camber is the sum of vertical curve, steel dead load, concrete dead load and superimposed dead load. All camber offsets are measured vertically to the top of web from a straight reference line drawn from the intersection of top of web and centerline of bearing at one end of the girder to the corresponding point at the other end of the girder.
 - Positive numbers in the table are above the straight reference line.
 - Negative numbers in the table are below the straight reference line.
 - The camber offsets are tabulated in decimals of a foot.

For Superstructure Notes, see Common Details; Dwg. No. 1 of 16.

All structural steel shall be ASTM A588 steel, unpainted.

For Stud Shear Connector Details, see Common Details; Dwg. No. 5 of 16.

For details of Flange Thickness Taper, see Common Details; Dwg. No. 5 of 16.

The ends of girders and bearing stiffeners shall be vertical. All conn. R's may be perpendicular to the top flange.

For layout of connection plates, see Dwg. No. 22 of 38.

For Haunch detail, see Dwg. No. 23 of 38.

For Drip Bar Details, see Common Details; Dwg. No. 5 of 16.

MOMENT & SHEAR TABLE		GIRDER 1-5		GIRDER 6-9		GIRDER 10	
		Q BRG.	MID. PT.	Q BRG.	MID. PT.	Q BRG.	MID. PT.
D.L.	MOMENT	70	1758	72	1824	73	1844
	SHEAR	18	456	18	456	18	456
S.D.L.	MOMENT	1526	1526	1583	1583	1380	1380
	SHEAR	65	29	67	30	58	26

DESIGN LOAD TABLE		GIRDER 1-5	GIRDER 6-9	GIRDER 10
	UNIT	LOAD / FT.	LOAD / FT.	LOAD / FT.
D.L.	SLAB	0.948 K/FT.	0.983 K/FT.	0.983 K/FT.
	HAUNCH	0.039 K/FT.	0.042 K/FT.	0.042 K/FT.
	GIRDER	0.235 K/FT.	0.243 K/FT.	0.259 K/FT.
	S.I.P. FORMS	0.121 K/FT.	0.125 K/FT.	0.125 K/FT.
	DIAPHRAGMS	0.040 K/FT.	0.040 K/FT.	0.040 K/FT.
TOTAL		1.383 K/FT.	1.435 K/FT.	1.449 K/FT.
S.D.L.	CONC. BARRIER	0.200 K/FT.	0.200 K/FT.	0.200 K/FT.
	NOISE BARRIER	0.158 K/FT.	0.158 K/FT.	0.158 K/FT.
	FUTURE W.S.	0.158 K/FT.	0.158 K/FT.	0.158 K/FT.
TOTAL		0.516 K/FT.	0.516 K/FT.	0.516 K/FT.

Shears are expressed as Kips. Live Load Moments and Shears include Impact.

Moments are expressed as Foot Kips.

Assumed Live Load = HS 20-44

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN AND CONSTRUCTION DIVISION

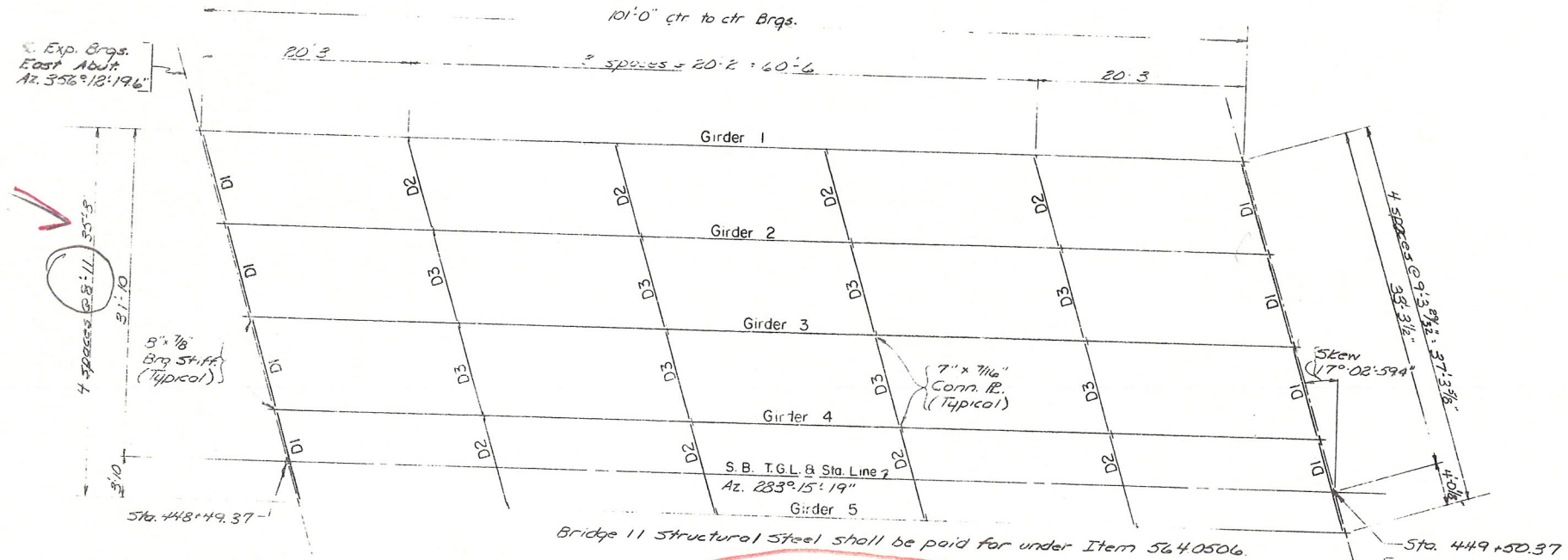
Bridges 11 & 11 over Thompson Rd.

GIRDER DETAILS, TABLES: CAMBER, MOMENT & SHEAR, AND DESIGN LOADS

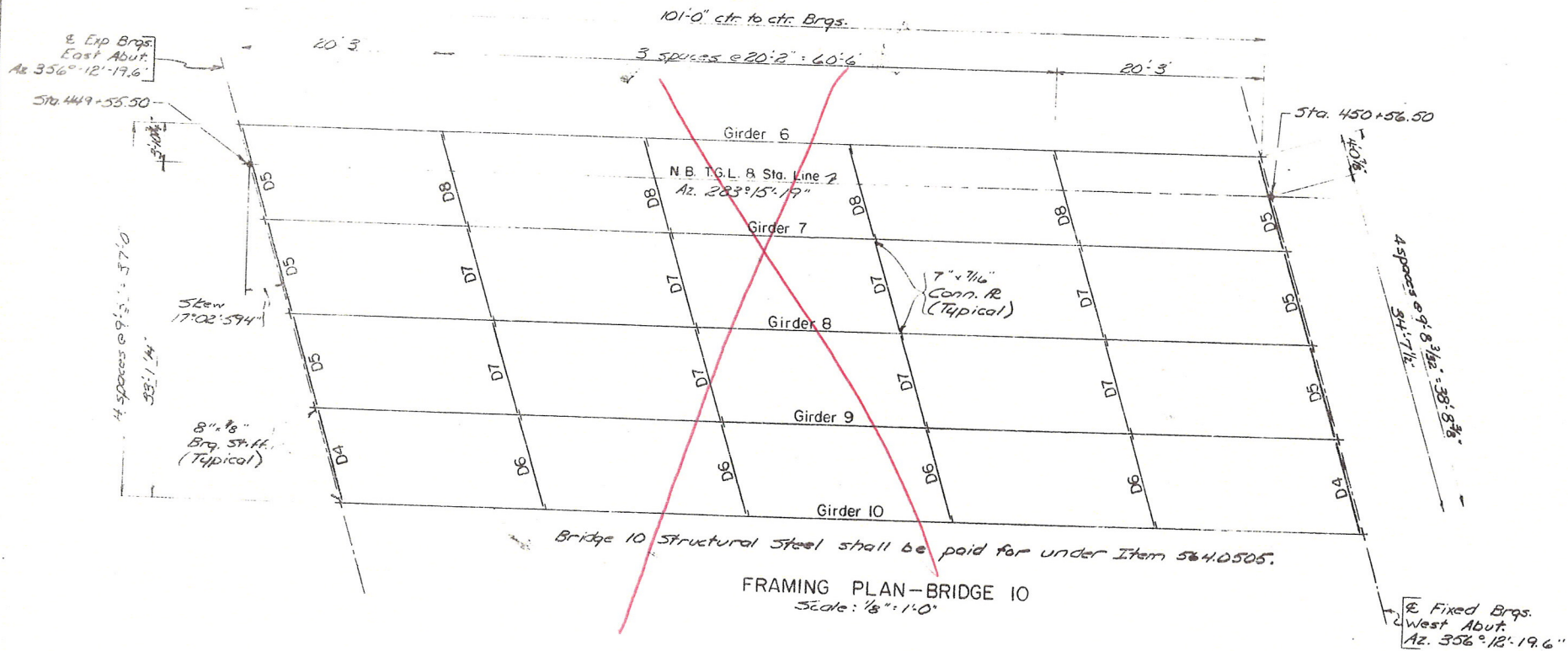
PROJ. ENG. *[Signature]* DATE MADE *[Date]*

SQUAD *[Signature]*

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.
	NEW YORK	18-81-20154
INTERSTATE RTE. 570 EXTENSION NORTHERN BLVD. TO BEAR ROAD IN ONONDAGA COUNTY		
CAPITAL PROJECT IDENTIFICATION NO. 314		



FRAMING PLAN—BRIDGE 11
Scale: 1/8" = 1'-0"



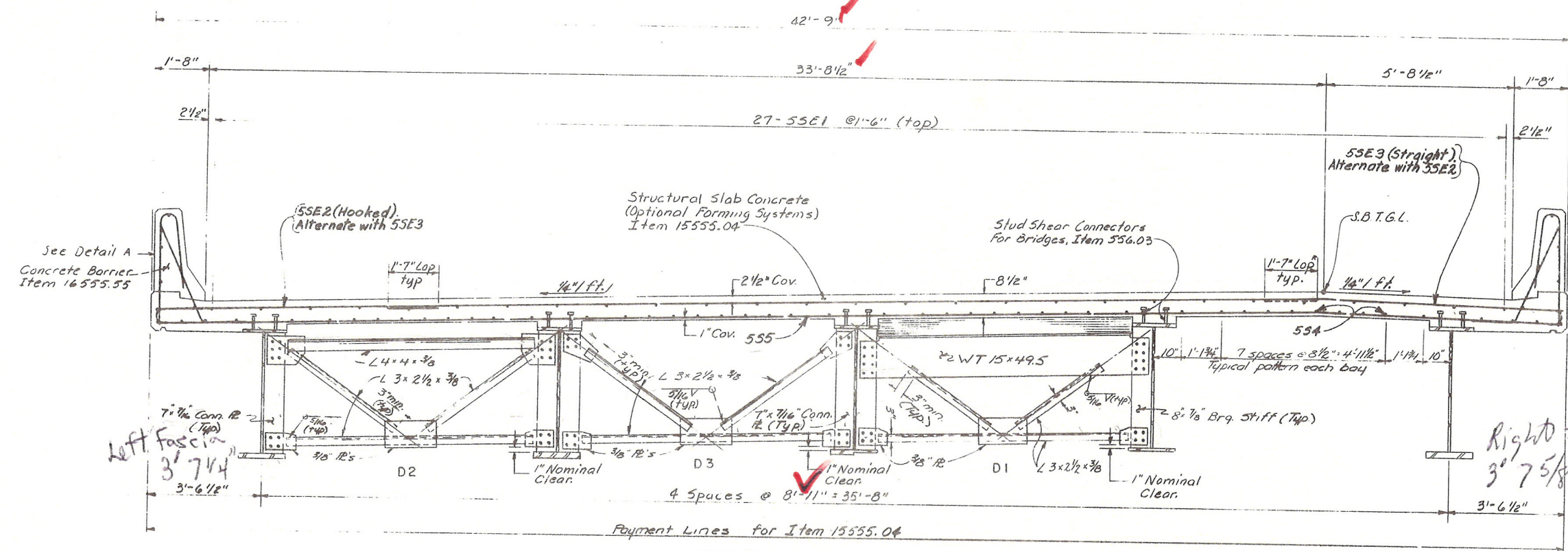
FRAMING PLAN—BRIDGE 10
Scale: 1/8" = 1'-0"

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN AND CONSTRUCTION	
Bridges 10 & 11 over Thompson	
FRAMING PLANS	
PROJ. ENG. <i>P. J. Barry</i>	DATE MADE

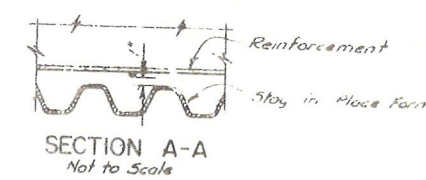
DESIGNED BY *J. D. [illegible]*
CHECKED BY *S. P. [illegible]*
DETAIL CHECKED BY *[illegible]*

DESIGNED BY *J. D. [illegible]*
CHECKED BY *S. P. [illegible]*
DETAIL CHECKED BY *[illegible]*

*Location of Cap on alternate bars (See Dwg No. 25 of 38)

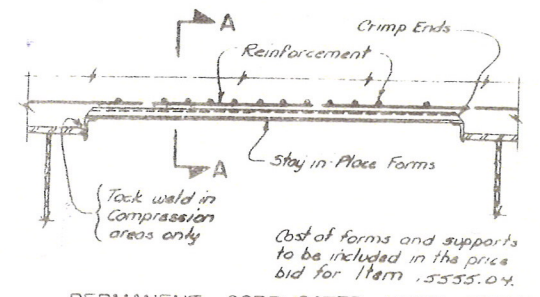


1. Where holes are indicated, connections shall be made with 7/8" diameter high-strength bolts.
2. Cross frames may be fabricated to fit the girders in their erect position and cambered shape, but deflected vertically due to steel dead load only.
3. The Contractor may place diaphragms on either side of the bearing stiffeners or stiffener connection plates as necessary to correct alignment provided there will be no interference with other structural details.
4. Tapered or flat shim plates may be used in the connection between skewed diaphragms and the bearing stiffeners or stiffener connection plates. Variable thicknesses of shim plates may be used. The minimum thickness of shim plate shall be 1/8" with a maximum number of three shim plates permitted at any connection. The total thickness of all shim plates used at any connection shall not exceed 1". Shim plates shall have the dimensions of the faying surface. The shim material shall conform to ASTM Designation A36, except that on unpainted structures, the shim material shall conform to ASTM Designation A588. No additional payment will be made for furnishing and placing the shim plates.

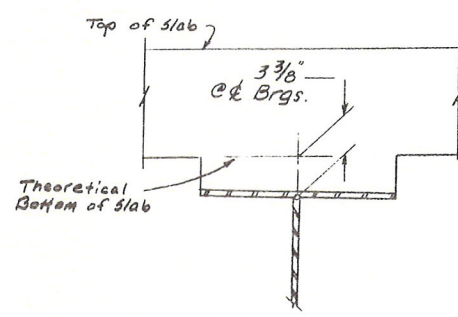


Right Fascia
3' 7 5/8"
3' - 6 1/2"

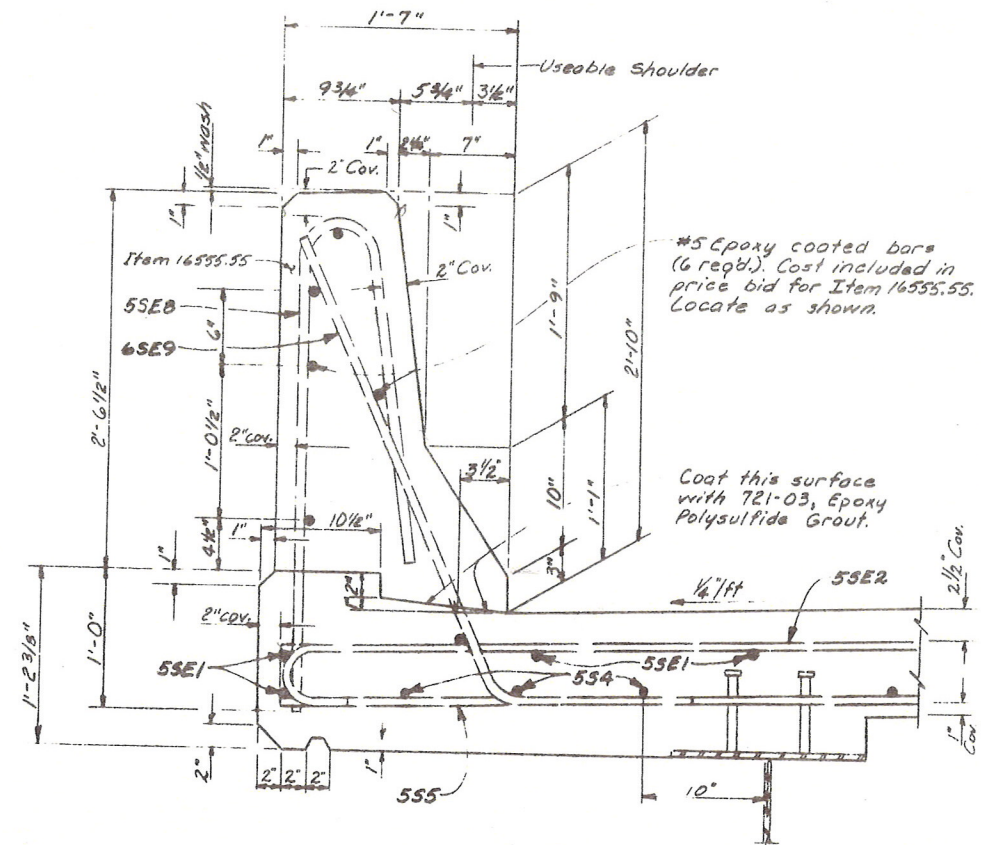
FASCIAE OVER HANG
AVERAGES OUT 3' - 6 1/2"



PERMANENT CORRUGATED METAL FORMS
(See "DECK FORM OPTIONS" note; Dwg. No 24 of 38)
Not to Scale



HAUNCH DETAIL
Not to Scale



DETAIL A
Scale: 1/2"=1'-0"

[illegible]

Note: Computations in the Haunch Table shall be algebraic

CONCRETE TABLE	
POUR	ITEM 15555.04
Structural Slab	4417 S.F.

For "Deck Form Options" note, see
Dwg. No. 24 of 38.

NOTE:
Haunch Table is based upon use of the Girder which would be used with Deck Form Type E. (See Girder Table; Dwg. No. 21 of 38.)

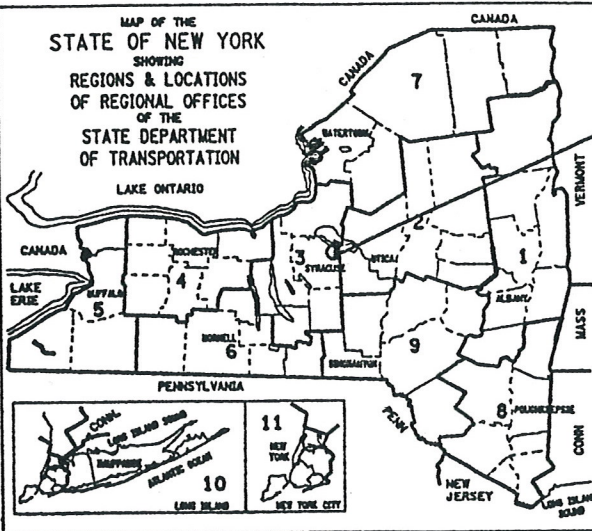
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN AND CONSTRUCTION DIVISION

Bridge 11 over Thompson Rd.

TRANSVERSE SECTION B HAUNCH TABLE
BRIDGE 11

PROJ. ENG. *E. J. G. [Signature]*
SQUAD *[Signature]*

DATE *11-1-61*
BY *[Signature]* IN CHARGE OF *[Signature]*



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)
VARIOUS BRIDGES ON INTERSTATE 481
TOWNS OF DEWITT AND CICERO

VOLUME 1 OF 2

432 SHEETS ONONDAGA COUNTY CONTRACT D259214

F.A. PROJECT

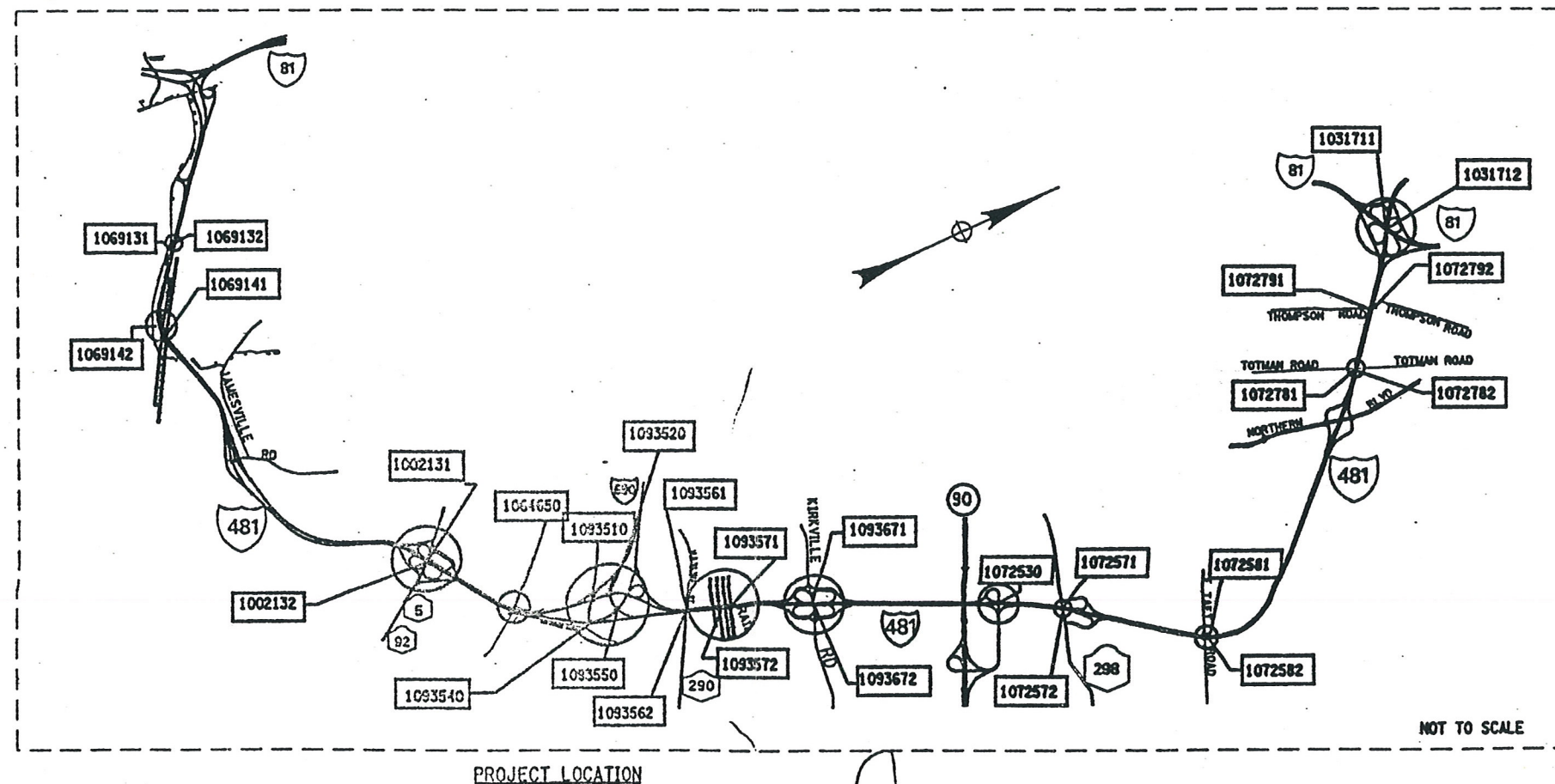
ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (METRIC UNITS) OF JANUARY 2, 2002, AS AMENDED BY ADDENDA NOS. 1 AND 2, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

M203-4, M203-5, M203-6R1, M603-1
M606-32, M606-33, M606-34,
M619-3R1, M619-4, M619-5
M685-1, M685-2R1, M685-3R1
M685-4R1, M685-5R1, M403-1, M203-4,
M203-5, M203-6R1, M603-1

BTO 9/10/04
 Gary Carr 02/12/06
 David S. Hann 7/30/08
 Bruno F. 7/13/10
 Lita Kiehl 6/8/12

THIS IS A BRIDGE REHABILITATION PROJECT ON VARIOUS BRIDGES ON INTERSTATE 481, LOCATED IN THE TOWNS OF CIGERO AND DEWITT IN ONEHOAGA COUNTY. THIS WORK CONSISTS OF BRIDGE JOINTS, BEARINGS, BRIDGE RAIL AND CONCRETE REPAIR OF SUBSTRUCTURES. THERE ARE 28 BRIDGES IN THE PROJECT BEGINNING AT REFERENCE MARKER 4811-3301-1000 SOUTH OF THE CITY OF SIRACUSE AND ENDING AT REFERENCE MARKER 4811-3301-2143. 1481 INTERCHANGE NORTH OF THE CITY.

CONTRACTOR'S NAME _____
AWARD DATE _____
COMPLETION DATE _____
FINAL ACCEPTANCE DATE _____
REGIONAL DIRECTOR _____
ENGINEER IN CHARGE _____
FINAL COST TOTAL _____
FISCAL SHARE _____ COST(S) _____



Record plans were reviewed on 12-18-13 by GA. No suspect asbestos materials were identified.

BRIDGE REHAB. PROJ.- ELEMENT SPECIFIC			
VARIOUS BRIDGES ON INTERSTATE 481			
TOWNS OF DEWITT AND CICERO			
ONONDAGA COUNTY			
FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	N.Y.	1	432
FEDERAL AID PROJECT NO.			
CAPITAL PROJECT IDENTIFICATION NO. 3056.13			
INDEX ON SHEET NO. 5 & 6			

RECOMMENDED BY <i>John E. Fisher</i>	9/04/02	RECOMMENDED BY <i>Murray A. Shirley</i>	9/4/02	RECOMMENDED BY <i>Carl P. [unclear]</i>	9/04/02	RECOMMENDED BY <i>[unclear]</i>	9-02	APPROVED BY <i>Walt S. [unclear]</i>	09-09-02
REGIONAL DESIGN ENGINEER	DATE	REGIONAL CONSTRUCTION ENGINEER	DATE	REGIONAL TRANSPORTATION MAINTENANCE ENGINEER	DATE	REGIONAL TRAFFIC ENGINEER	DATE	REGIONAL DIRECTOR	DATE

CHECKED BY
DRAFTED BY
ESTIMATED BY
DESIGNED BY

INDEX		
SHEET NO.	DESCRIPTION	DRAWING NO.
1	TITLE SHEET	COVER
2,3,4	ESTIMATE OF QUANTITIES	
5,6	INDEX	IDX-1 - IDX-2
7-155	MAINTENANCE AND PROTECTION OF TRAFFIC	MPT-1 - MPT-149
156	CROSSOVER TYPICAL SECTION	CTS-1
157-160	CROSSOVER SURVEY CONTROL DATA	HC-1 - HC-4
161-166	CROSSOVER PLANS	CPL-1 - CPL-6
167-174	CROSSOVER PROFILES	CPR-1 - CPR-8
175-177	CROSSOVER MISC. DETAILS	CMD-1 - CMD-3
178-179	CROSSOVER MISC. TABLES	CMT-1 - CMT-2
180-191	ESTIMATE OF QUANTITIES BY STRUCTURE	QE-1A - QE-4C
192	GENERAL NOTES	GN-1
193	BIN 1002131, I481SB/RT. 5, PLAN AND ELEVATION	GP1-1
194	BIN 1002131, TYPICAL BRIDGE SECTION AND PROFILE	TS1-1
195-197	BIN 1002131, SOUTH ABUTMENT (SB)	AB1-1 - AB1-3
198-199	BIN 1002131, NORTH ABUTMENT (SB), SHEET PILING LAYOUT	AB1-4 - AB1-5
200-201	BIN 1002131 PIER 1 & PIER 2 SB REMOVAL DETAILS	PR1-1 & PR1-2
202	BIN 1002131, PEDESTAL REPLACEMENT	PR1-3
203	BIN 1002131, BOLSTER DETAILS	PR1-4
204	BIN 1002131, ANCHOR BOLT LAYOUT (SB)	PR1-5
205	BIN 1002132, I481NB/RT. 5, PLAN AND ELEVATION	GP2-1
206-207	BIN 1002132, TYPICAL BRIDGE SECTION AND PROFILE, APPROACH SECTION	TS2-1 & TS2-2
208-213	BIN 1002132, SOUTH ABUTMENT (NB)	AB2-1 - AB2-6
214-219	BIN 1002132, NORTH ABUTMENT (NB)	AB2-7 - AB2-12
220-221	BIN 1002132, PIERS (NB)	PR2-1 & PR2-2
222	BIN 1002132, PEDESTAL REPLACEMENT (NB)	PR2-3
223	BIN 1002132, BOLSTER DETAILS (NB)	PR2-4
224	BIN 1002132, ANCHOR BOLT LAYOUT (NB)	PR2-5
225	BIN 1031711 AND 1031712, I-481/I-81, PLAN AND ELEVATION	GP3-1
226	BIN 1031711 & 1031712, TYPICAL BRIDGE SECTION AND PROFILE	TS3-1
227	BIN 1031711, EAST ABUTMENT (SB) PLAN & ELEVATION	AB3-1
228	BIN 1031711, WEST ABUTMENT (SB) PLAN & ELEVATION	AB3-2
229	BIN 1031712, EAST ABUTMENT (NB) PLAN & ELEVATION	AB3-3
230	BIN 1031712, WEST ABUTMENT (NB) PLAN & ELEVATION	AB3-4
231	BIN 1031711 & 1031712, APPROACH SLABS	AS3-1
232	BIN 1064650, KINNE RD/I-481, PLAN, ELEVATION, AND BRIDGE SECTION	GP4-1
233	BIN 1069131 & 1069132, I-481/QUARRY DRIVEWAY, PLAN AND ELEVATION	GP5-1
234	BIN 1069131 & 1069132, TYPICAL BRIDGE SECTION AND PROFILE AND BRIDGE SECTION	TS5-1
235	BIN 1069131, WEST ABUTMENT (SB) PLAN & ELEVATION	AB5-1
236	BIN 1069131, EAST ABUTMENT (SB) PLAN & ELEVATION	AB5-2
237	BIN 1069132, EAST ABUTMENT (NB) PLAN & ELEVATION	AB5-3
238-239	BIN 1069141 & 1069142, I-481/NYS + W RAILROAD, GENERAL PLAN AND ELEVATION	GP6-1 - GP6-2
240-241	BIN 1069141 & 1069142, TYPICAL BRIDGE SECTION AND PROFILES	TS6-1 & TS6-2
242	BIN 1069141, WEST ABUTMENT (SB) PLAN & ELEVATION	AB6-1
243	BIN 1069141, EAST ABUTMENT (SB) PLAN & ELEVATION	AB6-2
244	BIN 1069142, WEST ABUTMENT (NB) PLAN & ELEVATION	AB6-3
245	BIN 1069142, EAST ABUTMENT (NB) PLAN & ELEVATION	AB6-4

INDEX (CONTINUED)		
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246	BIN 1072530, RAMP TO I-481/I-481, PLAN, ELEVATION AND BRIDGE SECTION	GP7-1
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249	BIN 1072571 & BIN 1072572, I-481/ROUTE 298 PLAN AND ELEVATION AND BRIDGE SECTION	GP8-1
250	BIN 1072571 & BIN 1072572, TYPICAL BRIDGE SECTION AND PROFILE	TS8-1
251	BIN 1072571, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB8-1
252	BIN 1072571, NORTH ABUTMENT (SB) PLAN & ELEVATION	AB8-2
253	BIN 1072572, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB8-3
254	BIN 1072581 & BIN 1072582, I-481/TAFT ROAD, PLAN AND ELEVATION	GP9-1
255	BIN 1072581 & 1072582, TYPICAL BRIDGE SECTION AND PROFILE	TS9-1
256-257	BIN 1072581, SOUTH ABUTMENT AND NORTH ABUTMENT (SB)	AB9-1 & AB9-2
258-259	BIN 1072582, SOUTH ABUTMENT AND NORTH ABUTMENT (NB)	AB9-3 & AB9-4
260	BIN 1072781 & BIN 1072782, I-481/TOTMAN ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP10-1
261	BIN 1072781 & BIN 1072782 TYPICAL BRIDGE SECTION AND PROFILE	TS10-1
262-263	BIN 1072781, EAST ABUTMENT (SB) PLAN & ELEVATION	AB10-1 & AB10-2
264	BIN 1072782, WEST ABUTMENT (NB) PLAN & ELEVATION	AB10-3
265	BIN 1072781, APPROACH SLABS	AS10-1
266	BIN 1072791 & BIN 1072792, I-481/ THOMPSON ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP11-1
267	BIN 1072791 & BIN 1072792 TYPICAL BRIDGE SECTIONS AND PROFILE	TS11-1
268	BIN 1072791, EAST & WEST ABUTMENTS (SB)	AB11-1
269	BIN 1072791, APPROACH SLAB (SB)	AS11-1
270	BIN 1093510, I-690 RAMP/ I-481SB, PLAN, ELEVATION, AND BRIDGE SECTION	GP12-1
271	BIN 1093510, WEST ABUTMENT PLAN & ELEVATION	AB12-1
272	BIN 1093520, WN LINE OVER INTERSTATE 481 SB, PLAN, ELEVATION, AND BRIDGE SECTION	GP13-1
273	BIN 1093520, WEST ABUTMENT PLAN & ELEVATION	AB13-1
274	BIN 1093540, I-690 EB/ I-481 NB RAMP, PLAN, ELEVATION, AND BRIDGE SECTION	GP14-1
275	BIN 1093540 TYPICAL BRIDGE SECTION AND PROFILE	TS14-1
276	BIN 1093540, WEST ABUTMENT	AB14-1
277	BIN 1093550, I-481 NB/WB CONNECTOR, PLAN, ELEVATION, AND BRIDGE SECTION	GP15-1
278	BIN 1093550, SOUTH ABUTMENT, NB PLAN & ELEVATION	AB15-1
279	BIN 1093550, NORTH ABUTMENT, NB PLAN & ELEVATION	AB15-2
280	BIN 1093561 & 1093562, I-481/ROUTE 290, PLAN, ELEVATION AND BRIDGE SECTION	GP16-1
281	BIN 1093561 & 1093562 TYPICAL BRIDGE SECTION AND PROFILE	TS16-1
282	BIN 1093561, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB16-1
283	BIN 1093562, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB16-2
284-287	BIN 1093571 & BIN 1093572, I-481/CSX RAILROAD YARD, PLAN & ELEVATION	GP17-1 - GP17-4
288	BIN 1093571 AND BIN 1093572, TYPICAL BRIDGE SECTION AND PROFILES	TS17-1
289-293	BIN 1093571 AND BIN 1093672, DRAINAGE DETAILS	DD17-1 - DD17-5
294-296	BIN 1093571 AND BIN 1093672, SCUPPER EXTENSIONS	DD17-6 - DD17-8
297-314	BIN 1093571, PIERS 1-14, (SB)	PR17-1S - PR17-18S
315	BIN 1093572, SOUTH ABUTMENT (NB)	AB17-1
316-329	BIN 1093572, PIERS 1-14 (NB)	PR17-1N - PR17-14N
330-331	BIN 1093571 AND 1093572, PARAPET REPAIR DETAILS	PW17-1 & PW17-2
332	BIN 1093572, BRIDGE DECK REPAIRS	DR17-1

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	5	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. ALL BINS		
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED				
AS BUILT REVISIONS				
SIGNATURE		DATE		
INTERSTATE 481 REHABILITATION PROJECT				
INDEX				
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION				
FILENAME	REGION	DATE	DRAWING NO.	
305613AAL2A	3	10/02	10X-1	

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INDEX (CONTINUED)		
SHEET NO.	DESCRIPTION	DRAWING NO.
333	BIN 1093671 & 1093672, I-481/KIRKVILLE ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP18-1
334	BIN 1093671 & BIN 1093672 TYPICAL BRIDGE SECTION AND PROFILE	TS18-1
335-336	BIN 1093671, SOUTH ABUTMENT (SB) PLAN, ELEVATION AND SECTIONS	AB18-1 - AB18-2
337	BIN 1093671, NORTH ABUTMENT (NB) PLAN & ELEVATION	AB18-3
338-339	BIN 1093672, SOUTH ABUTMENT (NB) PLAN, ELEVATION AND SECTIONS	AB18-4 - AB18-5
340	BIN 1093672, NORTH ABUTMENT (NB) PLAN & ELEVATION	AB18-6
341-342	BIN 1002131, BIN 1002132 & BIN 1093571, MULTIROTATIONAL BEARINGS	BR-1 & BR-2
343	BIN 1002131, BEARING RESTORATION DETAILS	BR-3
344	BINS 1069131 & 1069132, BEARING RESTORATION DETAILS	BR-4
345-346	BIN 1069141 & BIN 1069142, BEARING RESTORATION DETAIL	BR-5 & BR-6
347	BIN 1072530, BEARING RESTORATION DETAILS	BR-7
348	BIN 1072791 AND BIN 1072792 BEARING RESTORATION DETAILS	BR-8
349	BIN 1093550, BEARING RESTORATION DETAILS	BR-9
350-351	BINS 1093751 & 1093572, BEARING RESTORATION DETAILS	BR-10 & BR-11
352	BIN 1072781 BEARING RESTORATION DETAILS	BR-12
	RAILING DETAILS	
353-355	BIN 1002131 & BIN 1002132, RAILING DETAILS	RD-1 - RD-3
356-358	BIN 1069141 & BIN 1069142, RAILING DETAILS	RD-4 - RD-6
359-360	RAILING DETAILS	RD-7 - RD-8
	BRIDGE JOINTS	
361-364	BRIDGE JOINT TABLE	JT-1 - JT-4
365	COMPRESSION SEAL JOINT DETAIL (ALL BRIDGES)	JD-1
366-370	BIN 1002131, JOINT DETAILS	JD-2 - JD-6
371-375	BIN 1002132, JOINT DETAILS	JD-7 - JD-11
376-377	BIN 1031711 & BIN 1031712, JOINT DETAILS	JD-12 - JD-13
378-383	BIN 1064650, JOINT DETAILS	JD-14 - JD-19
384-385	BIN 1069131, JOINT DETAILS	JD-20 + JD-21
386-387	BIN 1069132, JOINT DETAILS	JD-22 + JD-23
388-392	BIN 1069141 & BIN 1069142	JD-24 - JD-28
393-394	BIN 1072530, JOINT DETAILS	JD-29 + JD-30
395-396	BIN 1072571, JOINT DETAILS	JD-31 + JD-32
397-398	BIN 1072572, JOINT DETAILS	JD-33 + JD-34
399-400	BIN 1072581, JOINT DETAILS	JD-35 + JD-36
401-402	BIN 1072582, JOINT DETAILS	JD-37 + JD-38
403-404	BIN 1072781, JOINT DETAILS	JD-39 + JD-40
405-406	BIN 1072782, JOINT DETAILS	JD-41 + JD-42
407-408	BIN 1072792, JOINT DETAILS	JD-43 + JD-44
409-410	BIN 1093510, JOINT DETAILS	JD-45 + JD-46
411	BIN 1072791, BIN 1093520 & BIN 1093540, JOINT DETAILS	JD-47
412-413	BIN 1093550, JOINT DETAILS	JD-48 + JD-49
414-416	BIN 1093561 & BIN 1093562, JOINT DETAILS	JD-50 - JD-52
417-420	BIN 1093571 & BIN 1093572, JOINT DETAILS	JD-53 - JD-56
421-423	BIN 1093671 & BIN 1093672, JOINT DETAILS	JF-57 - JD-59

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SHEET NO.	DESCRIPTION	DRAWING NO.
424	VARIOUS BRIDGES - ROAD PLATE DETAIL	AA - RP1
	BAR LIST	
425-428	ALL BINS (BRIDGE JOINT SYSTEMS)	BL-1 - BL-4
429	BIN 1002131 & 1002132	BL-5
430	BIN 1093571	BL-6
431	STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS	MS-1
432	MISC. TABLE	MT-1

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	6	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGE ON INTERSTATE 481				
TOWN OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. VARIOUS		

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 REHABILITATION PROJECT	
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STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AAL2A	REGION 3	DATE 10/02	DRAWING NO. IDX-2

1

ESTIMATE OF QUANTITIES BY STRUCTURE																
ITEM #	DESCRIPTION	UNIT	1072781		1072782		1072791		1072792		1093510		1093520		1093540	
			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
203.02 M	UNCLASSIFIED EXCAVATION & DISPOSAL	CM	2				2									
203.03 M	EMBANKMENT IN PLACE	CM														
203.07 M	SELECT GRANULAR FILL	CM														
203.1770 M	CLEAN EXISTING PIPE CULVERT	M														
203.18 M	CLEANING CLOSED DRAINAGE SYSTEMS	M														
203.19 M	CLEAN DRAINAGE STRUCTURES AND MANHOLES	EA														
203.21 M	SELECT STRUCTURE FILL	CM														
15203.51 M	GRADING, CLEANING AND RESHAPING EXISTING DITCHES	M														
206.01 M	STRUCTURE EXCAVATION	CM														
206.02 M	TRENCH AND CULVERT EXCAVATION	CM														
207.10 M	GEOTEXTILE BEDDING	SM														
210.5433 M	REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING CAULKING (BY 12)	LS														
210.9913 M	REMOVAL AND DISPOSAL OF MISC. ASBESTOS CONTAINING MATERIAL BV-12	LS											NEC			
304.15 M	SUBBASE COURSE, OPTIONAL TYPE	CM														
402.128201 M	12.5mm F2 SUPERPAVE HMA, 80 SERIES COMPACTION	MT	3				3				3					
402.128211 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.128201M	QU	1				1				1					
402.258901 M	25mm F9 SUPERPAVE HMA, 80 SERIES COMPACTION	MT									4					
402.258911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.258901M	QU									1					
402.378901 M	37.5mm, F9 SUPERPAVE HMA, 80 SERIES COMPACTION	MT														
402.378911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.378901M	QU														
407.01 M	TACK COAT	L	5				5				9					
490.30 M	MISC. COLD MILLING OF BITUMINUS CONCRETE	SM									25					
502.92 M	SEALING TRANSVERSE JOINTS	M											21		21	
08520.5014 M	SAWCUT, ASPH, CONC/ASPH, OVERLAY- PCC PAVE	M	74				48				17					
552.13 M	TEMPORARY STEEL SHEETING	SM														
555.0105 M	CONCRETE FOR STRUCTURES - CLASS A	CM	1													
555.09 M	CONCRETE FOR STRUCTURES, CLASS HP	CM	3		1				1		1					
18555.81 M	STRUCTURAL CRACK SEALING	LM	6													
556.0201 M	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	KG														
556.0202 M	EPOXY COATED REBAR FOR STRUCTURES	KG	70		72				71		52					
558.01 M	TRANSVERSE SAWCUT GROOVING OF STR SLAB SURF	SM	18				17									
18559.1696 M	PROTECTIVE SEALER STRUCTURAL CONCRETE	SW														
18559.1896 M	PROT SEAL STR. CONC. - NEW BRIDGE DECK OVERLAYS	SM														
564.0501 M	STRUCTURAL STEEL	LS														
565.1522 M	TYPE W.R. EXPANSION BEARING (1001 TO 2000 KN)	EA														
565.1722 M	TYPE W.R. FIXED BEARING (1001 TO 2000 KN)	EA														
15565.4302 M	BRIDGE BEARING RESTORATION	EA	10				10		10							

ALL DIMENSIONS ARE IN UNLESS OTHERWISE NOTED			
<u>AS BUILT REVISIONS</u>			
SIGNATURE		DATE	
SHEET 7 OF 12			
ESTIMATE OF QUANTITIES			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613.1.1A	REGION 3	DATE 10/02	DRAWING NO. QE-3A

ESTIMATE OF QUANTITIES BY STRUCTURE

ITEM #	DESCRIPTION	UNIT	1072781		1072782		1072791		1072792		1093510		1093520		1093540	
			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
570.090004 M	ENVIRONMENTAL GROUND PROTECTION	LS	---		---		---		---		---		---		---	
570.100001 M	ENVIRONMENTAL WATERWAY PROTECTION	LS	---		---		---		---		---		---		---	
570.100002 M	ENVIRONMENTAL WATERWAY PROTECTION	LS	---		---		---		---		---		---		---	
16570.32 M	LOCALIZED PAINTING OF BARE STRUCTURAL STEEL	SM	---		---		---		---		---		---		---	
16570.72 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL PLANAR SURFACES	SM	---		---		---		---		---		---		---	
16570.76 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL - IRREGUALR	SM	---		---		---		---		---		---		---	
571.010001 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---		---		---		---		---		---		---	
571.010002 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---		---		---		---		---		---		---	
571.010003 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---		---		---		---		---		---		---	
571.010004 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---		---		---		---		---		---		---	
572.010001 M	STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED	SM	---		---		---		---		---		---		---	
572.010002 M	STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED	SM	---		---		---		---		---		---		---	
576.2001M	DOWNSPOUT SYSTEM, DUCTILE IRON	M	---		---		---		---		---		---		---	
578.020001 M	OVERLAY CONCRETE - CLASS E	SM	---		---		---		---		---		---		---	
578.020002 M	OVERLAY CONCRETE - CLASS E	SM	---		---		---		---		---		---		---	
578.020003 M	OVERLAY CONCRETE - CLASS E	SM	---		---		---		---		---		---		---	
578.020004 M	OVERLAY CONCRETE - CLASS E	SM	---		---		---		---		---		---		---	
578.020005 M	OVERLAY CONCRETE - CLASS E	SM	---		---		---		---		---		---		---	
578.030001 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---		---		---		---		---		---		---	
578.030002 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---		---		---		---		---		---		---	
578.030003 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---		---		---		---		---		---		---	
578.030004 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---		---		---		---		---		---		---	
578.030005 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---		---		---		---		---		---		---	
578.030006 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	18		---		---		---		---		---		---	
578.030007 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---		---		17		---		---		---		---	
579.02 M	REINFORCING BAR EXPOSURE	SM	26		8		17		8		---		---		---	
580.01 M	REMOVAL OF STRUCTURAL CONCRETE	CM	3		3		---		3		1		---		---	
582.05 M	REMOVE STRUCTURAL CONCRETE WITH CLASS A CONCRETE	CM	1		1		1		---		1		1		2	
582.07 M	REMOVE STRUCTURAL CONCRETE AND REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL	SM	---		---		---		---		---		---		---	
16584.13 M	RAPID SETTING CONCRETE FOR BRIDGE AND APPROACH SLAB REPAIRS	KG	---		---		---		---		---		---		---	
585.01 M	STRUCTURAL LIFTING OPERATIONS - TYPE A	EA	10		---		10		10		---		---		---	
585.02 M	STRUCTURAL LIFTING OPERATIONS - TYPE B	EA	---		---		---		---		---		---		---	
585.03 M	STRUCTURAL LIFTING OPERATIONS TYPE C	EA	---		---		---		---		---		---		---	
586.01 M	DRILL AND GROUT BOLTS, OR REINFORCING BARS	mm	6000		6000		---		6600		4200		---		---	
17586.18M	DRILLING HOLES IN EXISTING SUBSTRUCTURE	M	---		---		---		---		---		---		---	
16586.200125 M	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA	---		---		---		---		---		---		---	
16586.200216 M	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA	---		---		---		---		---		---		---	
587.01 M	BRIDGE RAILING REMOVAL AND DISPOSAL	M	---		---		---		---		---		---		---	
589.520001 M	REMOVAL OF EXISTING STEEL	EA	---		---		---		---		---		---		---	
589.520002 M	REMOVAL OF EXISTING STEEL	EA	---		---		---		---		---		---		---	
589.520003 M	REMOVAL OF EXISTING STEEL	EA	---		---		---		---		---		---		---	
589.520004 M	REMOVAL OF EXISTING STEEL	EA	---		---		---		---		---		---		---	
589.520005 M	REMOVAL OF EXISTING STEEL	EA	---		---		---		---		---		---		---	
590.01M	VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES	EA	---		---		---		---		---		---		---	
603.6001 M	REINFORCED CONCRETE PIPE CLASS III, 300 mm	M	---		---		---		---		---		---		---	
603.7301M	REINFORCED CONCRETE PIPE END SECTION 300 mm DIAMETER	EA	---		---		---		---		---		---		---	

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	187	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE DATE

SHEET 8 OF 12

ESTIMATE OF QUANTITIES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613-1A	3	10/02	0E-38

[illegible]

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	188	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613			B.I.N. VARIOUS	

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AS BUILT REVISIONS

SIGNATURE

DATE _____

SHEET 9 OF 12

ESTIMATE OF QUANTITIES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

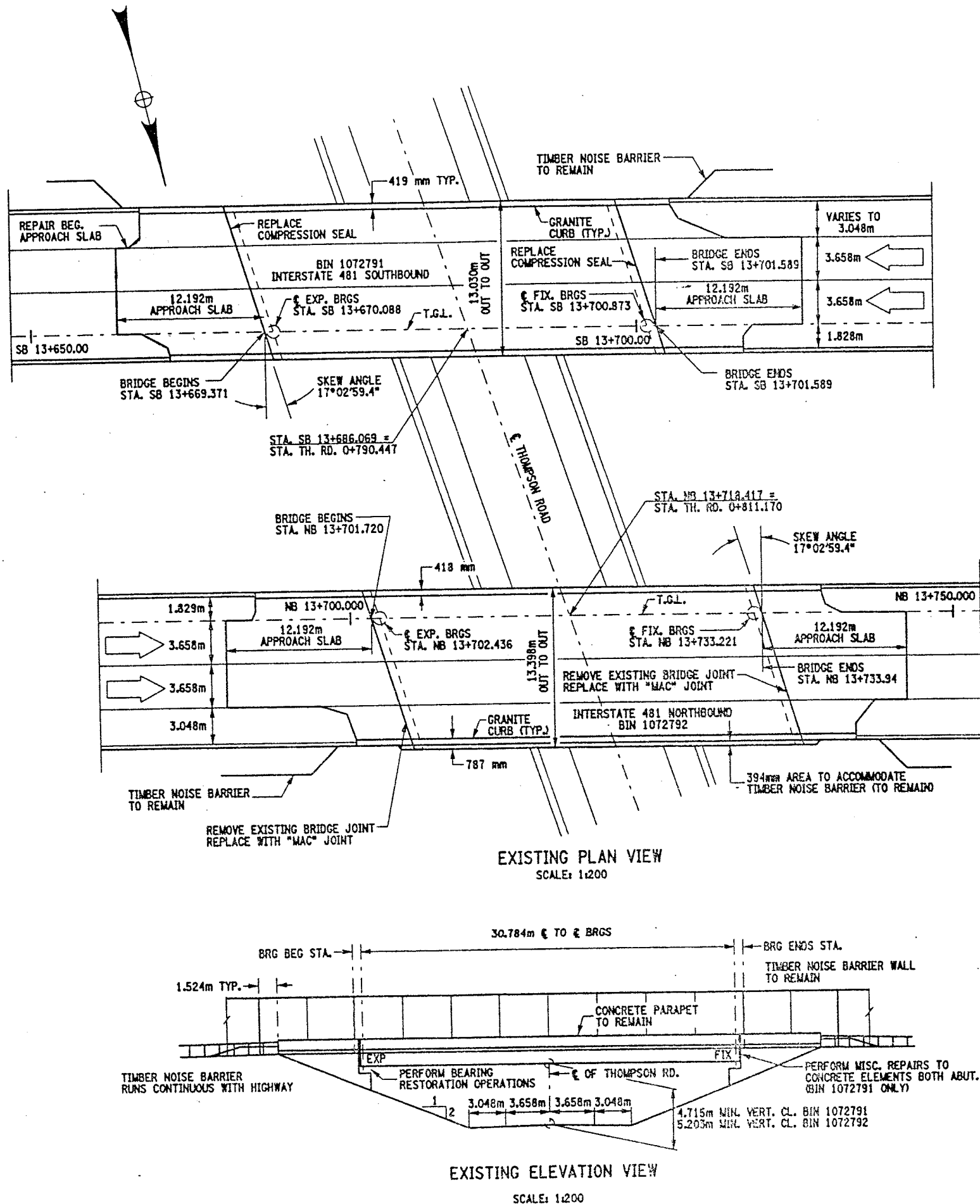
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305613.L1

REGION
3

DATE
10/02

DRAWING NO.
QE-3C

CHECKED BY
DRAFTED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR



- WORK TO BE DONE (NOT NECESSARILY IN THIS ORDER)
- BIN 1072791:**
1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION.
 2. REPLACE COMPRESSION SEALS AT THE BRIDGE JOINTS.
 3. REPAIR CONCRETE BEGINNING APPROACH SLAB. (SEE DWG. MS-2)
 4. PERFORM BEARING RESTORATION OPERATIONS.
 5. PERFORM MISCELLANEOUS REPAIRS TO CONCRETE ELEMENTS, BOTH ABUTMENTS.
- BIN 1072792:**
1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION.
 2. REMOVE EXISTING BRIDGE JOINTS.
 3. PLACE NEW BRIDGE JOINTS, ("MAC" JOINTS).
 4. PERFORM BEARING RESTORATION OPERATIONS.

NOTE:
"MAC" JOINT - MODIFIED ARMORED JOINT SYSTEM
WITH COMPRESSION SEAL.

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	266	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)
VARIOUS BRIDGES ON INTERSTATE 481
TOWN OF DEWITT AND CICERO
ONONDAGA COUNTY
P.I.N. 305613 B.I.N. 1072791 & 1072792

LOCATION MAP
NOT TO SCALE

BIN 1072791 SOUTHBOUND
BIN 1072792 NORTHBOUND

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481
OVER
THOMPSON ROAD
PLAN, ELEVATION AND BRIDGE SECTION

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.
305613AC.G1A 3 10/02 GP11-1

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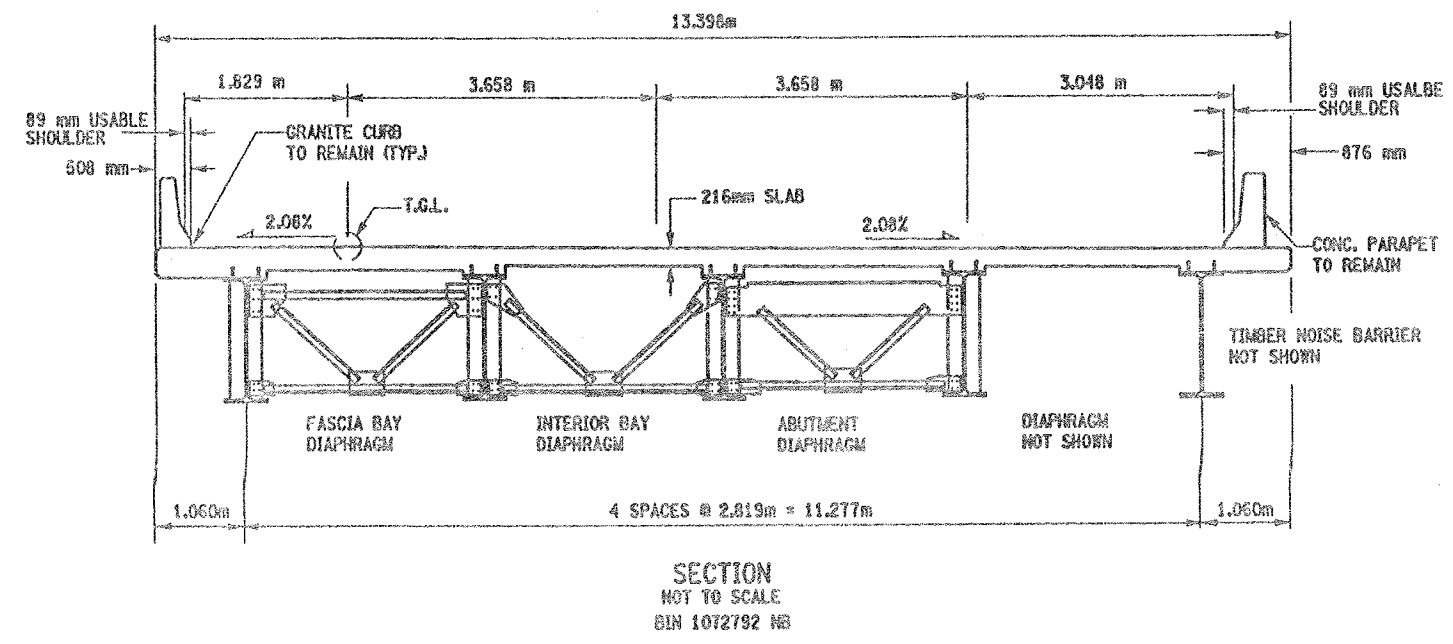
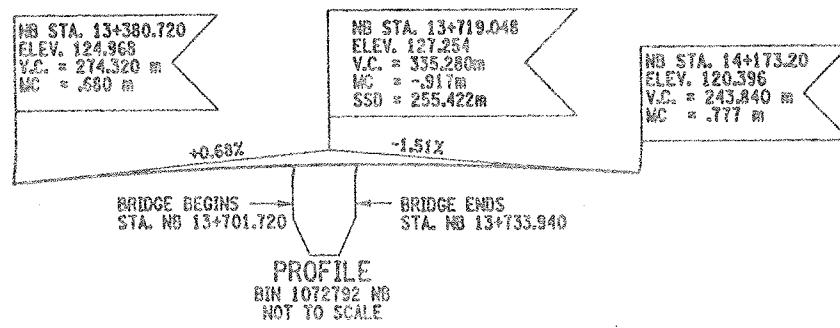
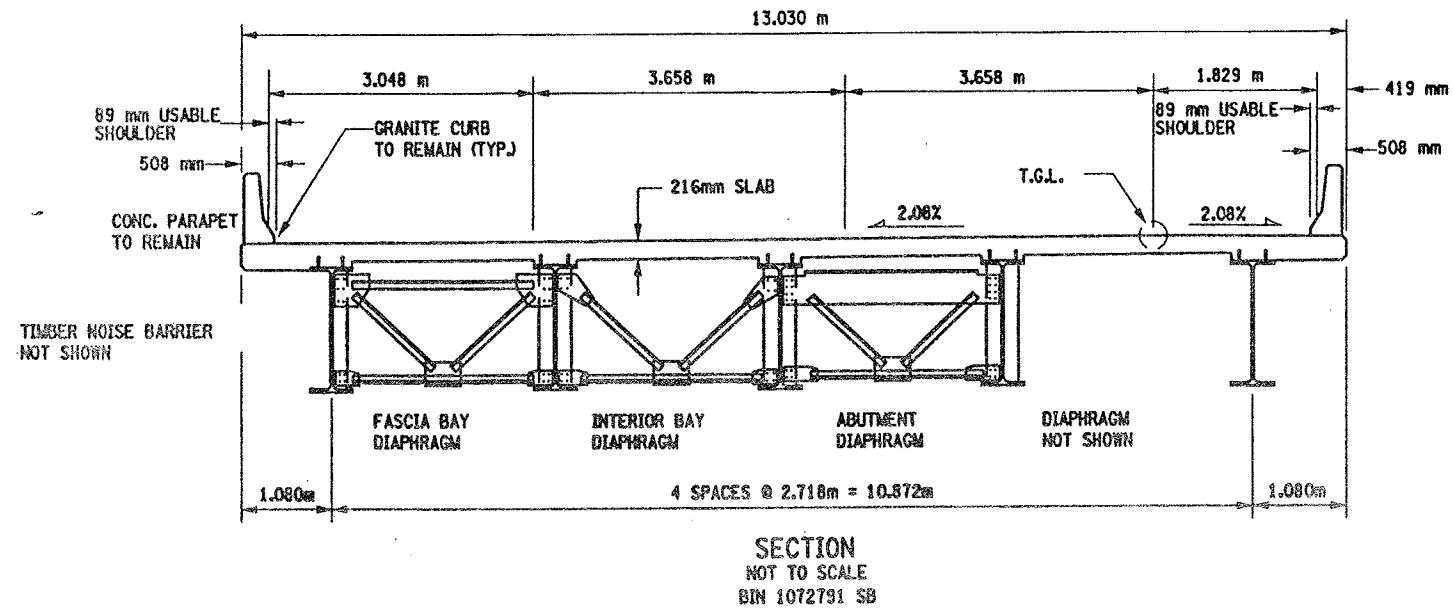
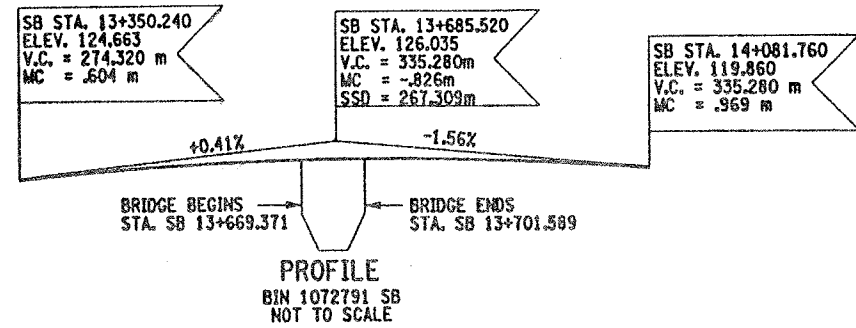
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DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	267	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWN OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1072791 & 1072792		



NOTES:

TIMBER NOISE BARRIER WALL IS ATTACHED TO NORTH FASCIA ON BIN 1072792 NB AND TO THE SOUTH FASCIA ON BIN 1072791 SB.

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AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481
OVER
THOMPSON ROAD

TYPICAL BRIDGE SECTION AND PROFILE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AC.GIA REGION 3 DATE 10/02 DRAWING NO. TS11-1

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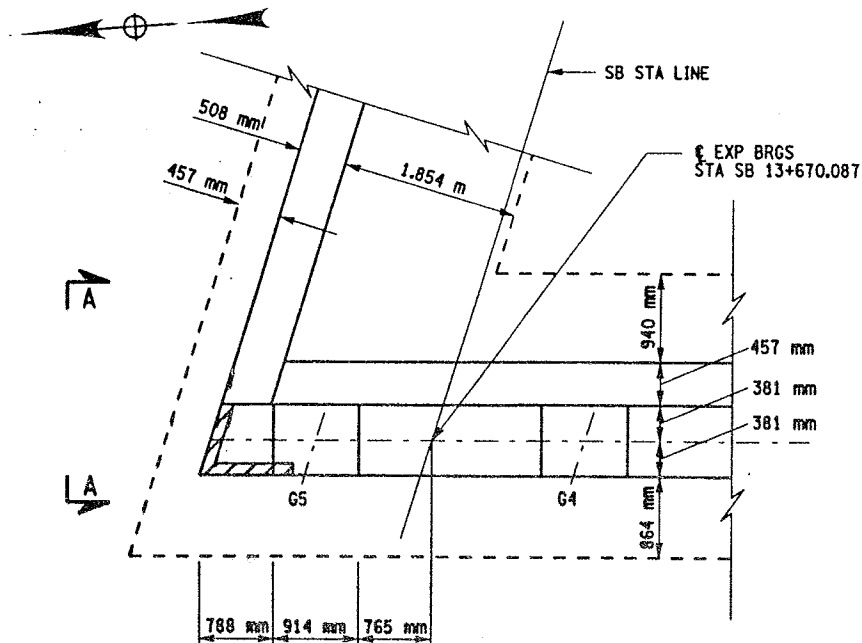
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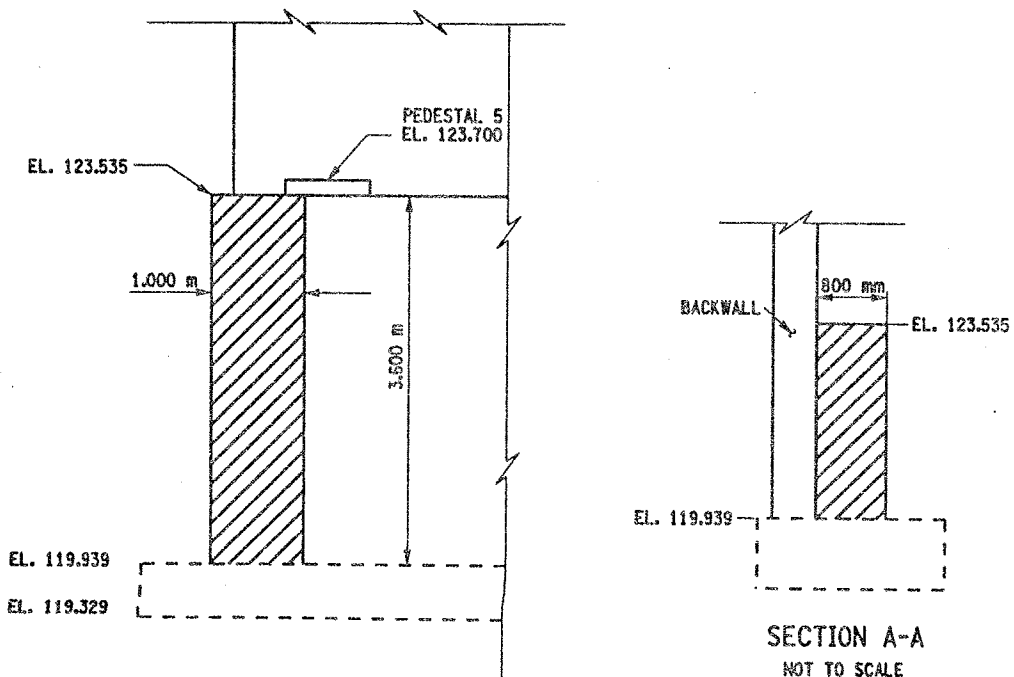
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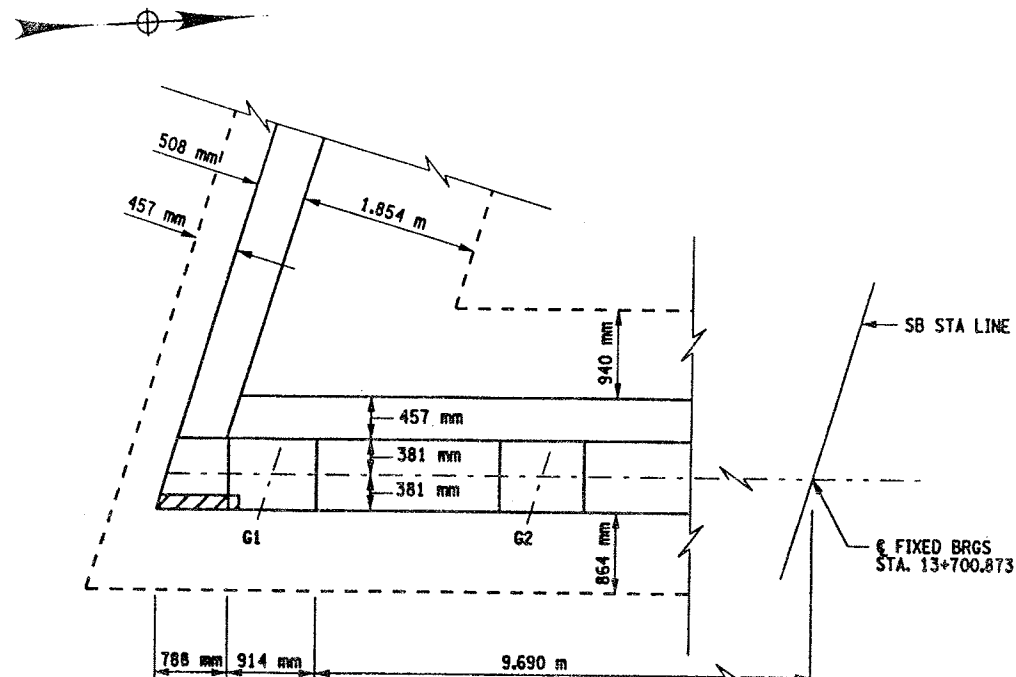
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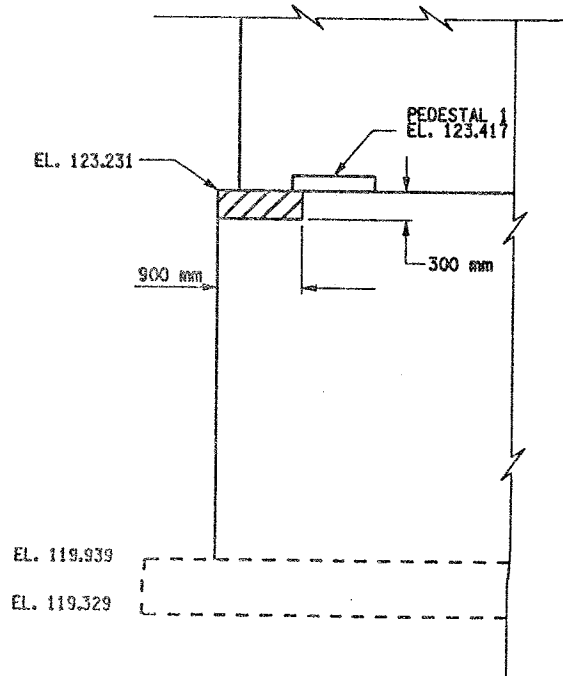
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PARTIAL PLAN
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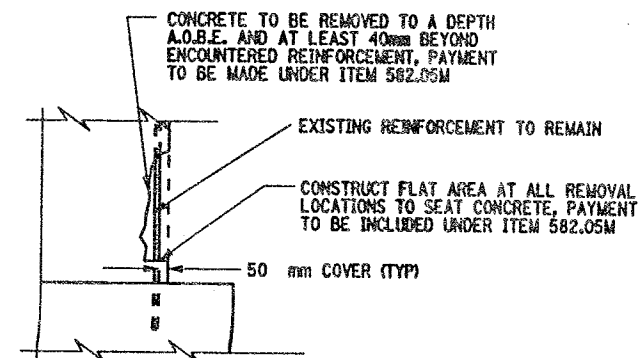
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SCALE 1:40



WEST ABUTMENT
PARTIAL PLAN
SCALE 1:40



WEST ABUTMENT ELEVATION
SCALE 1:40



REMOVAL DETAIL
NOT TO SCALE

LIST OF ITEMS USED:

- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACEMENT WITH CLASS A CONCRETE (CM)
- ITEM 585.01M - STRUCTURAL LIFTING, TYPE A (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	268	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1072791	

NOTES:

- ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ETC.
- REMOVE CONCRETE TO LIMITS SHOWN AS WELL AS TO SOUND CONCRETE, A.O.B.E.
- WHEN REMOVING EXISTING CONCRETE, SAWCUT 5 mm MIN. TO PRODUCE NEAT REMOVAL LINES. ANY COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 582.05M.
- ALL EXISTING REINFORCEMENT TO REMAIN.
- ELEVATIONS ARE GIVEN FOR QUANTITY ESTIMATES ONLY.
- REFER TO CONTRACT D250416 FOR ORIGINAL CONSTRUCTION DETAILS.

BRIDGE BEARING RESTORATION NOTES:

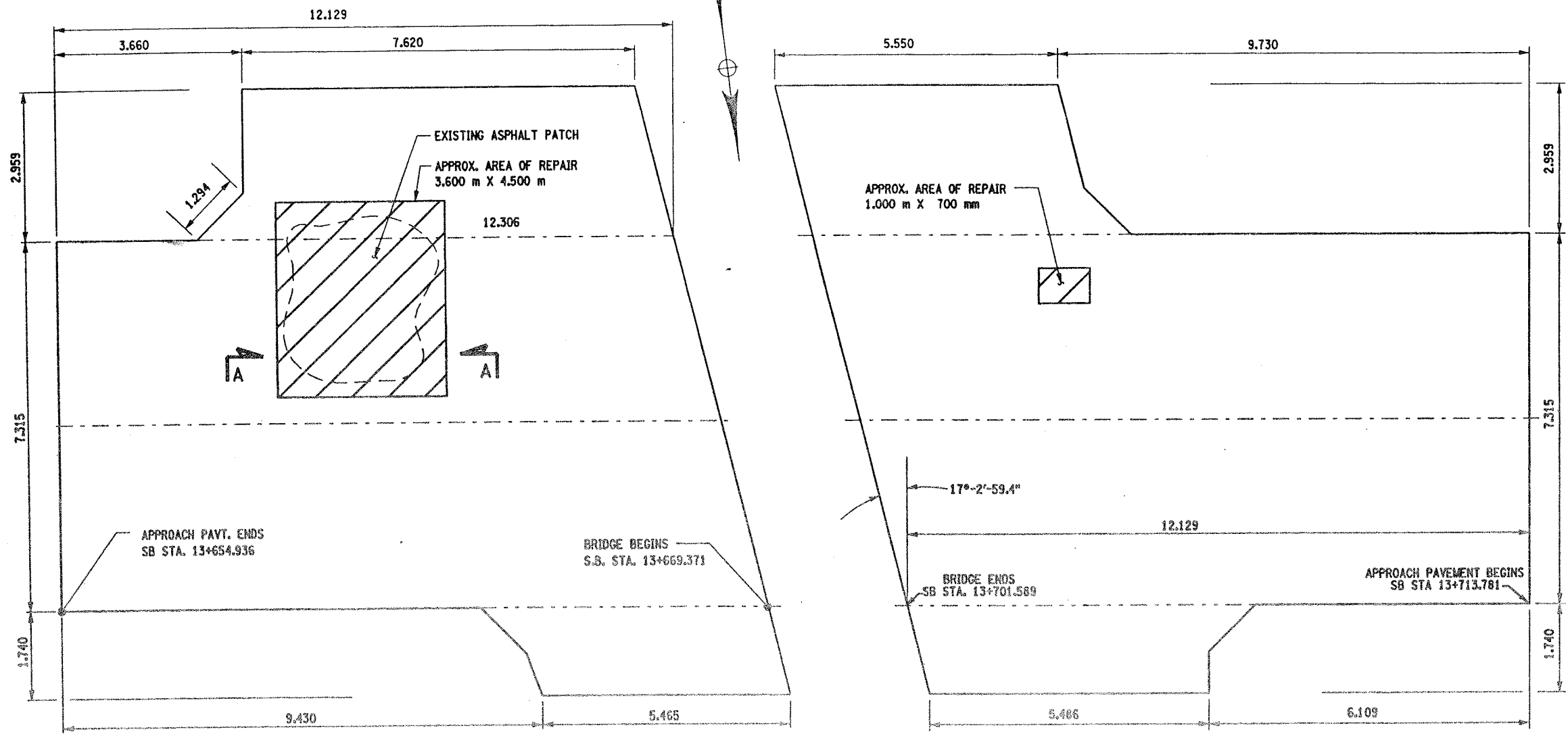
- THE BRIDGE BEARING RESTORATION ITEM 15565.4302M SHALL INCLUDE ALL DESIGNATED WORK AS PER THE SPECIFICATION.
- STRUCTURAL LIFTING SHALL BE USED WITH ALL EXPANSION BEARING RESTORATION.
- IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER SPAN (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARINGS), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN SPECIFICATION SECTION 585- STRUCTURAL LIFTING OPERATIONS.
- BEARING RESTORATION SHALL INCLUDE REPLACEMENT OF BRONZE PLATE.
- FIXED BEARINGS TO BE CLEANED IN PLACE. DO NOT DISASSEMBLE.
- ALL BEARINGS AT BOTH THE EAST AND WEST ABUTMENT OF BIN 1072791 AND BIN 1072792 SHALL INCLUDE ITEM 15565.4302M - BRIDGE BEARING RESTORATION AND ITEM 585.01M - STRUCTURAL LIFTING OPERATION TYPE A.
- SEE BR-8 FOR BEARING RESTORATION DETAILS.

AREAS OF PROPOSED WORK: ITEM 582.05M
REMOVAL OF STRUCTURAL CONCRETE-
REPLACEMENT WITH CLASS A CONCRETE

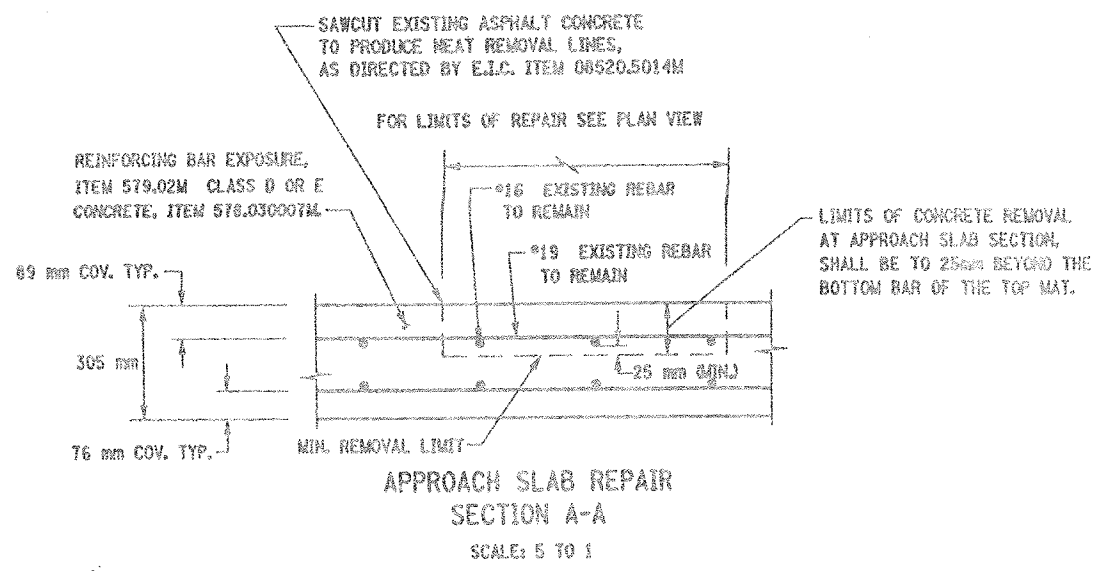
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.

AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 SB OVER THOMPSON ROAD ABUTMENT REPAIRS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AC.A10	REGION 3	DATE 10/02	DRAWING NO. AB11-1

DESIGN SUPERVISOR
JOB MANAGER
CHECKED BY
DESIGNED BY
ESTIMATED BY
DRAFTED BY
CHECKED BY



PLAN VIEW
APPROACH SLABS
SCALE: 1 TO 50



LIST OF ITEMS USED:

- ITEM 08520.5014M - SAWCUT ASPHALT CONCRETE (SM)
- ITEM 558.01M - TRANSVERSE SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE (SM)
- ITEM 578.030007M - SLAB RECONSTRUCTION CONCRETE, CLASS D OR E (SM)
- ITEM 579.02M - REINFORCING BAR EXPOSURE (SM)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	269	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1072791	

NOTES

1. ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND EIC.
2. REMOVE CONCRETE TO LIMITS SHOWN AS WELL AS TO SOUND CONCRETE, A.O.B.E.
3. WHEN REMOVING EXISTING CONCRETE, SAWCUT 5 mm MIN. TO PRODUCE NEAT REMOVAL LINES.
4. ALL EXISTING REINFORCEMENT TO REMAIN.
5. REFER TO CONTRACT D250416 FOR ORIGINAL CONSTRUCTION DETAILS.

AREAS OF WORK: ITEM 579.02M - REINFORCING BAR EXPOSURE, ITEM 578.030006M - SLAB RECONSTRUCTION CONCRETE, CLASS D OR E AND ITEM 558.01M TRANSVERSE SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE

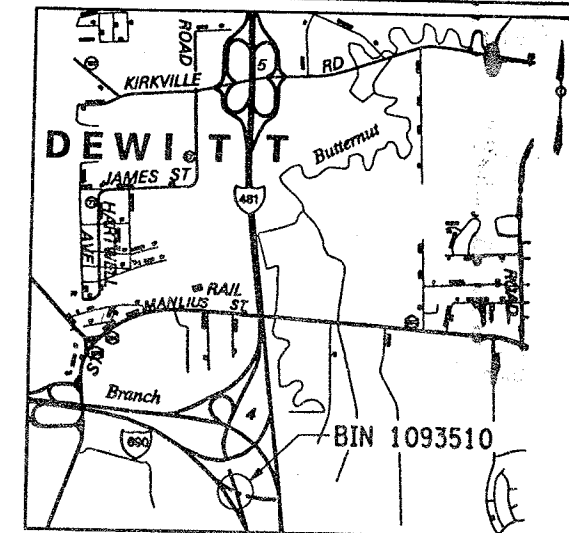
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 SB OVER THOMPSON ROAD APPROACH SLAB			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AC.A1A	REGION 3	DATE 10/02	DRAWING NO. AS11-1

CHECKED BY
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ESTIMATED BY
CHECKED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	270	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)
VARIOUS BRIDGES ON INTERSTATE 481
TOWNS OF DEWITT AND CICERO
ONONDAGA COUNTY
P.I.N. 305613 B.I.N. 1093510

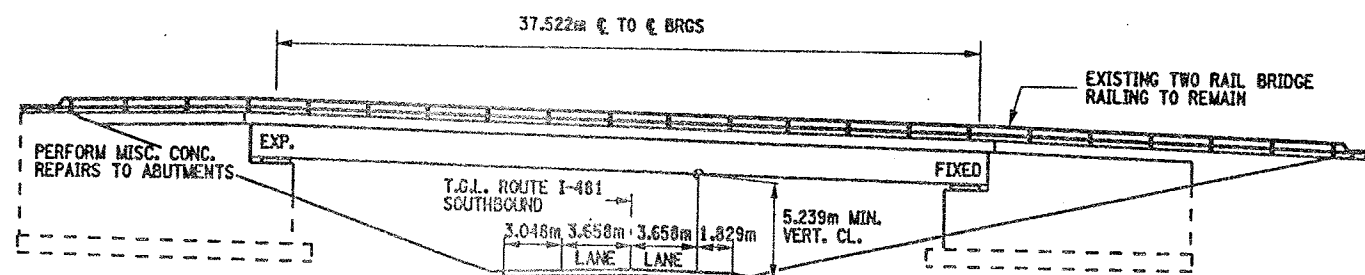
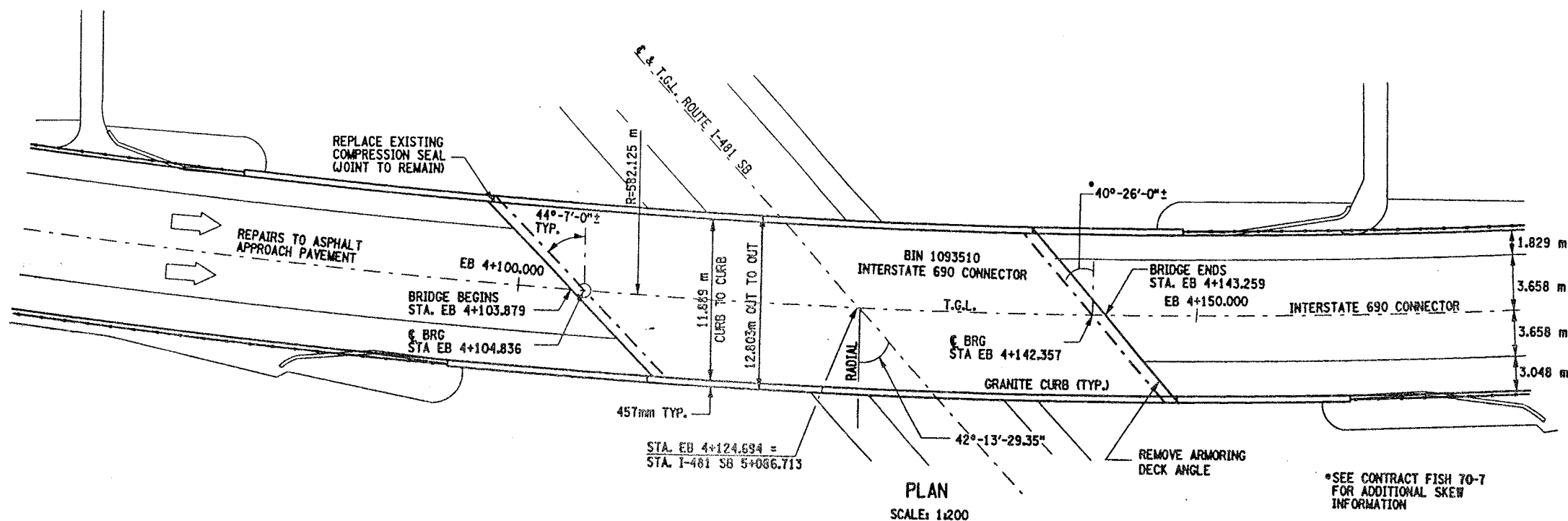


LOCATION MAP
QUADRANGLE

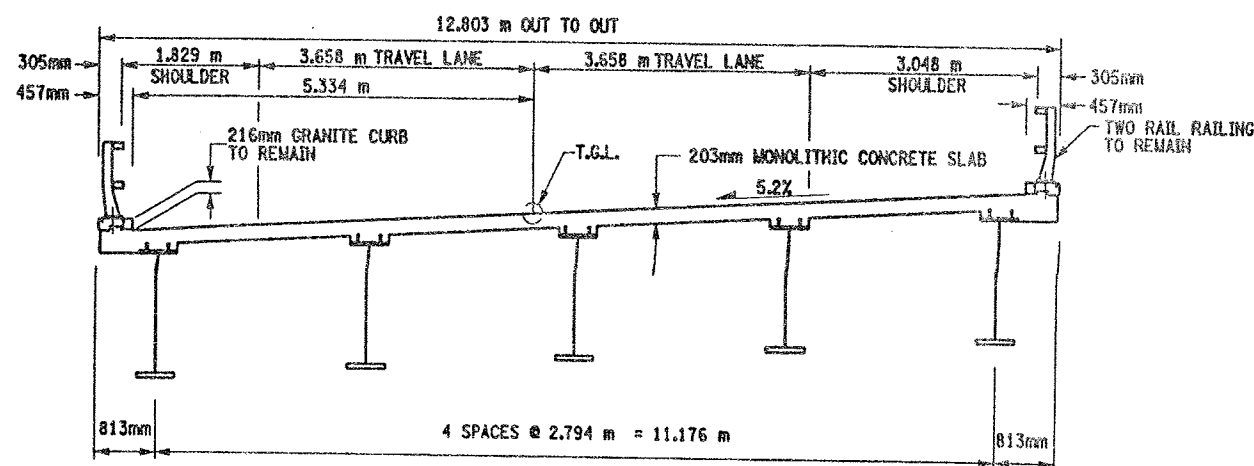
SCALE: 1:24000

WORK TO BE DONE ON BIN 1093510:

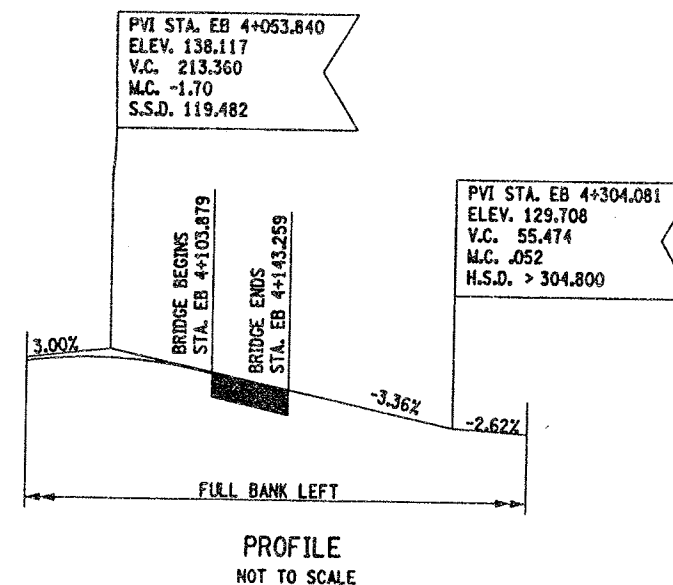
1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION.
2. REPLACE EXISTING COMPRESSION SEAL AT BEG. ABUTMENT (WEST). EXISTING JOINT & ARMORING DECK ANGLE TO REMAIN.
3. REMOVE EXISTING ARMORED DECK ANGLE AT END ABUTMENT (EAST).
4. REPAIR DECK AREA AT END ABUTMENT (EAST), WHERE ARMORING DECK ANGLE WAS REMOVED.
5. PERFORM MINOR REPAIRS TO ASPHALT APPROACHES (SEE JD-45).
6. PERFORM MISCELLANEOUS REPAIRS TO CONCRETE ELEMENTS AT ABUTMENT.



ELEVATION
SCALE: 1:200



TYPICAL BRIDGE SECTION
SCALE: 1:50



BIN 1093510			
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED			
AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 690 RAMP OVER INTERSTATE 481 SB			
PLAN, ELEVATION AND BRIDGE SECTION			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AD.61A	REGION 3	DATE 10/02	DRAWING NO. GP12-1

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	362	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. ALL BINS		

BRIDGE JOINT TABLE

B.I.N. NUMBER	JOINT LOCATION	JOINT SKEW	SPAN(S) LENGTH FOR JOINT (METERS)	JOINT BEND LOCAT'N		EXISTING JOINT TYPE	PROPOSED JOINT TYPE	CURB TO CURB DISTANCE (METERS) (SEE NOTES)	FASCIA & MEDIAN LENGTH (METERS) LT/RT	TOTAL LENGTH (METERS)	JOINT ITEM NUMBER(S)	DRAWING NUMBER		
				RT	LT							SECT VIEW	PLAN VIEW	FASCIA DETAIL
1072530	EAST ABUT.	0°-00'-00"	33.528	N	N	ACJ	MAC-5	15.850	.457/.457	16.764	567.35M	JD-30	JD-29	JD-30
	WEST ABUT.	0°-00'-00"	37.795	N	N	ACJ	MAC-5	15.850	.457/.457	16.764	567.35M	JD-30	JD-29	JD-30
1072571	SOUTH ABUT.	20°-29'-45.2"	44.196	N	N	ACJ	MAC-6	14.481	.488/.488	15.457	567.36M	JD-32	JD-31	JD-32
	NORTH ABUT.	20°-29'-45.2"	—	N	N	ACJ	MAC-1	15.456	.488/.488	16.428	567.31M	JD-32	JD-31	JD-32
1072572	SOUTH ABUT.	21°-09'-2.1"	44.196	N	N	ACJ	MAC-6	12.746	.490/.490	13.726	567.36M	JD-34	JD-33	JD-34
	NORTH ABUT.	21°-09'-2.1"	—	N	N	ACJ	MAC-1	12.746	.490/.490	13.726	567.31M	JD-34	JD-33	JD-34
1072581	SOUTH ABUT.	3°59'-27.5"	37.033	N	N	ACJ	MAC-5	11.917	.458/.458	12.833	567.35M	JD-36	JD-35	JD-36
	NORTH ABUT.	3°-59'-27.5"	—	N	N	ACJ	MAC-1	11.917	.458/.458	12.833	567.31M	JD-36	JD-35	JD-36
1072582	SOUTH ABUT.	3°-51'-57.9"	37.033	N	N	ACJ	MAC-5	11.915	.458/.458	12.831	567.35M	JD-38	JD-37	JD-38
	NORTH ABUT.	3°-51'-57.9"	—	N	N	ACJ	MAC-1	11.915	.458/.458	12.831	567.31M	JD-38	JD-37	JD-38
1072781	EAST ABUT.	16°-26'-24"	—	N	N	ACJ	MAC-1	12.500	.530/.530	13.560	567.31M	JD-40	JD-39	JD-40
	WEST ABUT.	16°-26'-24"	33.635	N	N	ACJ	MAC-5	12.500	.530/.530	13.560	567.35M	JD-40	JD-39	JD-40
1072782	EAST ABUT.	16°-26'-24"	—	N	N	ACJ	MAC-1	13.183	.530/.530	14.243	567.31M	JD-42	JD-41	JD-42
	WEST ABUT.	16°-26'-24"	31.394	N	N	ACJ	MAC-5	12.589	.530/.530	13.649	567.35M	JD-42	JD-41	JD-42
1072791	EAST ABUT.	17°-02'-59.4"	30.785	N	N	ACJ	RCS	12.566	.531/.531	13.628	16567.64M	JD-47	JD-43	JD-47
	WEST ABUT.	17°-02'-59.4"	—	N	N	ACJ	RCS	12.566	.531/.531	13.628	16567.64M	JD-47	JD-43	JD-47
1072792	EAST ABUT.	17°-02'-59.4"	30.785	N	N	ACJ	MAC-5	12.566	.530/.530	14.015	567.35M	JD-44	JD-43	JD-44
	WEST ABUT.	17°-02'-59.4"	—	N	N	ACJ	MAC-1	12.566	.530/.530	14.015	567.31M	JD-44	JD-43	JD-44
1093510	WEST ABUT.	44°-07'-00"	—	N	N	ACJ/ADA	RCS	16.560	.637/.637	17.834	16567.64M	JD-46	JD-45	JD-46
	EAST ABUT.	40°-26'-00"	37.522	N	N	ADA	RADA	15.620	—	15.620	—	JD-46	JD-45	—

LEGEND

- EXISTING JOINT TYPE:
- ACJ = ARMORED COMPRESSION JOINT SYSTEM
 - MOD = MODULAR JOINT SYSTEM
 - MAC = MODIFIED ARMORED COMPRESSION SYSTEM (NO HORIZ. ARMORING ANGLE)
 - ADA = ARMORED DECK ANGLE
 - SS = STRIP SEAL JOINT
 - OPEN = OPEN JOINT
- PROPOSED JOINT TYPE:
- MAC-1 = MOD. ARM./COMP. SEAL JT. SYS. (A-1)
 - MAC-2 = MOD. ARM./COMP. SEAL JT. SYS. (A-2)
 - MAC-5 = MOD. ARM./COMP. SEAL JT. SYS. (A-5)
 - MAC-6 = MOD. ARM./COMP. SEAL JT. SYS. (A-6)
 - RCS = REPLACE EXISTING COMPRESSION SEAL
 - RADA = REMOVE ARMOR DECK ANGLE
 - MOD-1 = MODULAR JT. SYS. (ONE-CELL)
 - MOD-2 = MODULAR JT. SYS. (TWO-CELL)
- JOINT BEND LOCATION:
- N = NO BENDS
 - CRB = CURB LINE
 - PAV'T = PAVEMENT
- GENERAL NOTES:
- ALL MEASUREMENTS SHALL BE FIELD VERIFIED.
 - CURB TO CURB LENGTHS ARE MEASURED ALONG C OF JOINT.
 - MULTIPLE DIMENSIONS ARE SHOWN LOOKING UP-STATION, LEFT TO RIGHT.
 - ALL DIMENSIONS ARE SHOWN IN METERS.

INFORMATIONAL NOTES:

BIN 1072530 - NO JOINT AT PIER.

BIN 1072791 - REPLACE COMPRESSION SEALS
BEG. ABUT. (EAST), TYPE A-5
END ABUT. (WEST), TYPE A-1

FOR JOINT DETAILS REFER TO THE FOLLOWING DRAWINGS:

DWG. NO. JD-1 - MODIFIED ARMORED COMPRESSION SEAL JOINT SYSTEM.
DWG. NO. JD-24 - ONE-CELL MODULAR JOINT SYSTEM.
DWG. NO. JD-25 - TWO-CELL MODULAR JOINT SYSTEM.

LIST OF BRIDGE JOINT ITEMS USED:

- ITEM 566.01M - MODULAR EXP. JOINT SYSTEM ONE-CELL (W)
- ITEM 566.02M - MODULAR EXP. JOINT SYSTEM TWO-CELL (W)
- ITEM 567.31M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (m)
- ITEM 567.32M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (m)
- ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m)
- ITEM 567.36M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m)
- ITEM 16567.640001M - REPLACE COMPRESSION SEAL FOR EXISTING BRIDGE JOINTS (m)

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

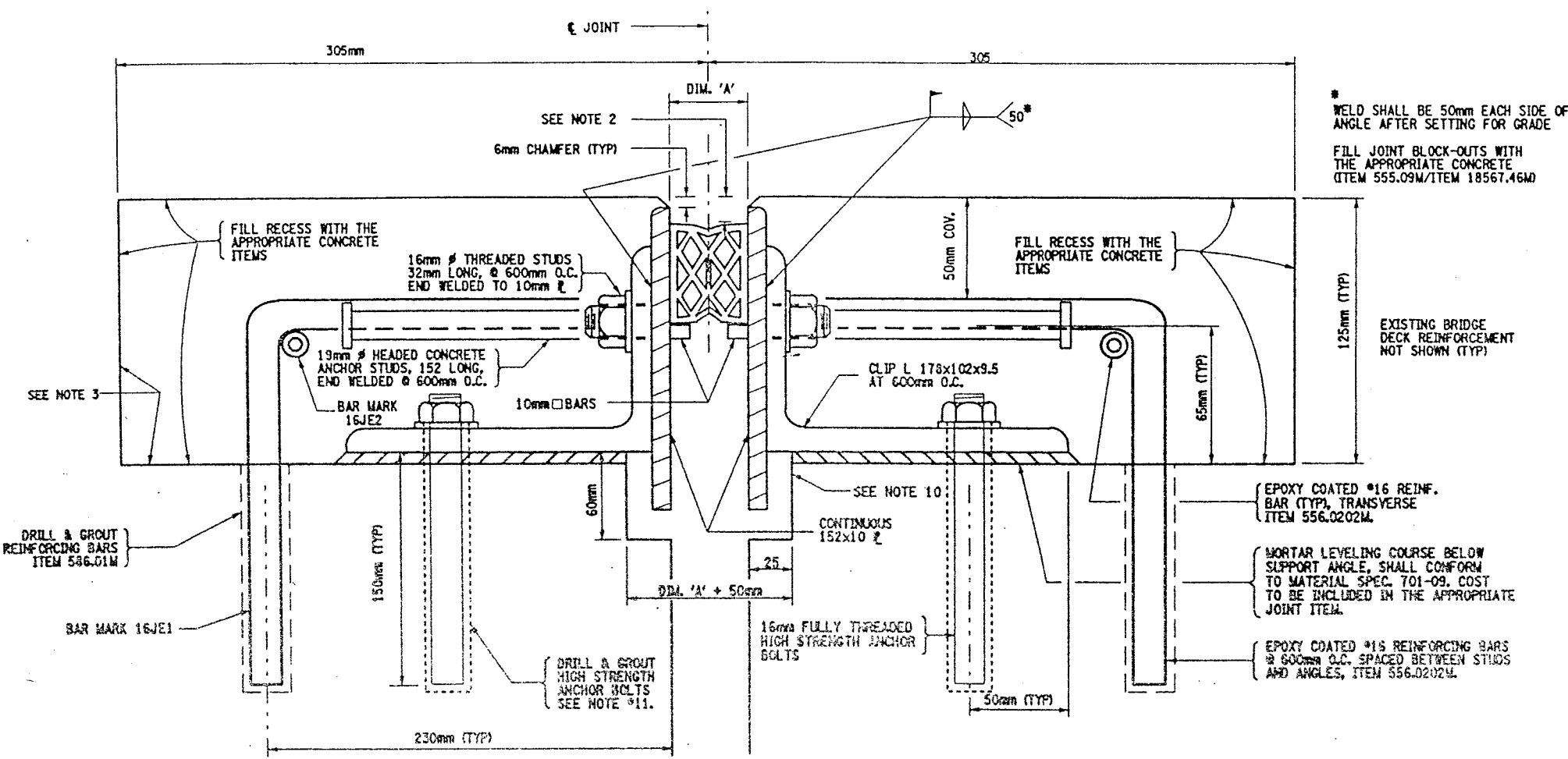
SIGNATURE	DATE		
INTERSTATE 481 VARIOUS BRIDGES			
BRIDGE JOINT TABLE			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AJ.JA1	REGION 3	DATE 10/02	DRAWING NO. JT-2

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ESTIMATED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	365	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. ALL BIN'S	

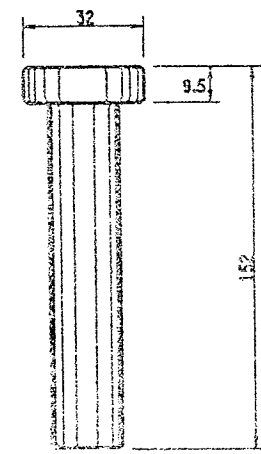
GENERAL NOTES:

1. THE TEMPERATURE OF THE BRIDGE MUST BE TAKEN ON THE STRUCTURAL STEEL SURFACE TO DETERMINE THE TEMPERATURE CORRECTION FOR THE JOINT OPENINGS.
2. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS NORMAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6mm NOR MORE THAN 19mm BELOW THE TOP OF THE ROADWAY.
3. RECESSES RECEIVING ITEM 555.09M. AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACE AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE, FOR 12 HOURS. NOTE THE USE OF MATERIAL SPEC. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, SEE INSERT IN PROJECT PROPOSAL.
4. A WATER-TIGHT INTEGRITY TEST SHALL BE PERFORMED BY THE CONTRACTOR AT ALL COMPRESSION SEAL JOINT INSTALLATIONS. THE FOLLOWING TEST PARAMETERS SHALL BE INCORPORATED IN THE TEST:
 1. A 15 MINUTE MINIMUM PERIOD OF STANDING WATER, WITH A 25mm MINIMUM DEPTH SHALL BE USED.
 2. IN ADDITION, IN LOCATIONS OF COPED AREAS OF THE SEAL, BENDS, ETC., WATER PRESSURE SHALL BE APPLIED, TO THE SATISFACTION OF THE EIC FOR A 15 MINUTE PERIOD.
 3. LIMITS OF TEST AREA SHALL BE FROM FACE OF CURB TO FACE OF CURB ON THE DECK SURFACE.
5. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THE JOINT IF, IN THE OPINION OF THE ENGINEER, THE INSTALLED JOINT LEAKS WITHIN THE 15 MINUTE TEST PERIOD.
6. PRIOR TO THE START OF WORK AT EACH JOINT, THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR THE SPECIFICS OF THE TESTING, INCLUDING CONTAINMENT OF THE WATER AND THE METHOD TO BE USED FOR ACCESS BY THE E.I.C. TO THE BOTTOM OF THE JOINT BEING TESTED.
7. THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THE TESTING WHICH INCLUDES, BUT IS NOT LIMITED TO:
 1. A CONTAINMENT SYSTEM FOR THE TEST WATER.
 2. PROVISIONS FOR E.I.C. ACCESS TO THE BOTTOM OF THE JOINT. SHALL BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE JOINT ITEMS.
8. THE COST OF ALL LABOR, EQUIPMENT, AND MATERIALS TO INSTALL THE NEW JOINT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT ITEM.
9. MORTAR LEVELING COURSE SHALL CONFORM TO MATERIAL SPECIFICATION 701-09 AND SHALL BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE JOINT ITEM.
10. THE DIMENSIONS OF THE REMOVAL AREA UNDER THE 152x10 PLATES ARE SHOWN TO ALLOW SPACE FOR THE PLATES TO REST FREELY. IF THERE IS ALREADY ADEQUATE SPACE, NO CONCRETE REMOVAL OR REPLACEMENT IS REQUIRED IN THIS AREA.
11. 16 mm # ASTM A325M ANCHOR BOLT TO BE DRILLED AND GROUTED IN PLACE IN ACCORDANCE WITH THE REQUIREMENTS OF SUB-SECTION 586-3.02. GROUTING MATERIALS SHALL BE IN ACCORDANCE WITH MATERIALS SUB-SECTION 701-07 ANCHORING MATERIALS-CHEMICALLY CURING. HOLES TO BE DRILLED TO THE DIAMETER AND DEPTH RECOMMENDED BY THE MANUFACTURER OF THE GROUTING MATERIAL. MIN. DEPTH OF 150 mm. THE COST OF THE ANCHORS, INCLUDING DRILLING AND GROUTING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT SYSTEM ITEM.
12. IT IS DESIRABLE TO HAVE THE ARMORED JOINT WITH ITS COMPRESSION SEAL ASSEMBLED IN THE SHOP AND DELIVERED TO THE JOB SITE ALL SET FOR INSTALLATION IN ITS PREFORMED RECESS IN THE STRUCTURAL SLAB. IN CASES WHERE THE ARMORED JOINT CANNOT BE ASSEMBLED IN THE SHOP, DUE TO ITS EXCESSIVE LENGTH CAUSING SHIPPING PROBLEMS, THE JOINT SHALL BE SEALED WITH THE COMPRESSION SEAL BEFORE THE STRUCTURE IS OPENED TO TRAFFIC INCLUDING CONSTRUCTION TRAFFIC, AND BEFORE DIS CONTINUING OPERATIONS WHEN WORK IS SUSPENDED DURING THE WINTER.



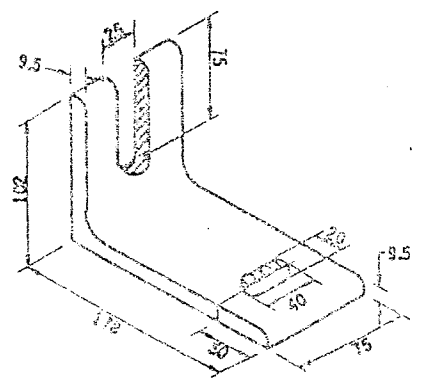
MODIFIED ARMORED COMPRESSION JOINT DETAIL

FOR INSTALLATION LOCATIONS SEE JOINT TABLE
NOT TO SCALE



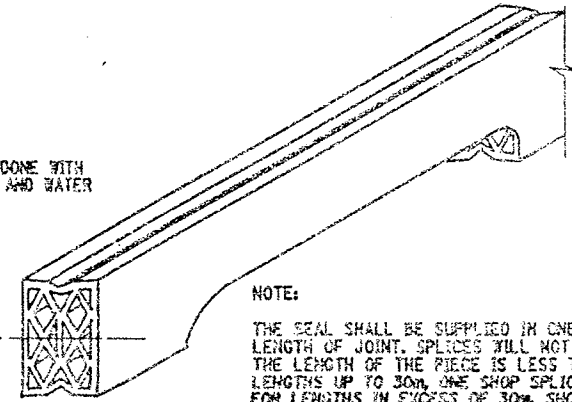
DETAIL OF HEADED CONCRETE ANCHOR STUD

NOT TO SCALE



DETAIL OF CLIP ANGLE

NOT TO SCALE



DETAIL FOR CUTTING SEAL

NOT TO SCALE

EPOXY POLYSULFIDE GROUT NOTE:

CONTRACTOR MAY WITH THE APPROVAL OF THE ENGINEER USE MATERIAL SPECIFICATION 721-03 EPOXY POLYSULFIDE GROUT, AT THE RECESSES, INSTEAD OF THE 12 HOUR CONTINUOUS PREWETTING REQUIREMENTS (PROJECT PROPOSAL). CONTRACTOR MUST ENSURE PROPER CONSTRUCTION PRACTICES ARE FOLLOWED WHEN USING THIS GROUT. THE USE OF EPOXY POLYSULFIDE GROUT SHALL BE AT NO ADDITIONAL COST TO THE STATE.

SEALS (mm)			ARMORED JOINT SYSTEM	
TYPE	NOMINAL WIDTH	DIM. "A" @ 20°C.	TYPE	END CONDITION
1	44	25	A1	Fixed End Only
2	51	30	A2	Exp. up to 18 m
3	54	38	A3	Exp. over 18 m to 23 m
4	76	44	A4	Exp. over 23 m to 27 m
5	89	52	A5	Exp. over 27 m to 38 m
6	102	60	A6	Exp. over 38 m to 46 m

Maximum Skew Limits: Fixed End - No Limit
Exp. End - 45° A2 thru A6

LIST OF ITEMS USED:

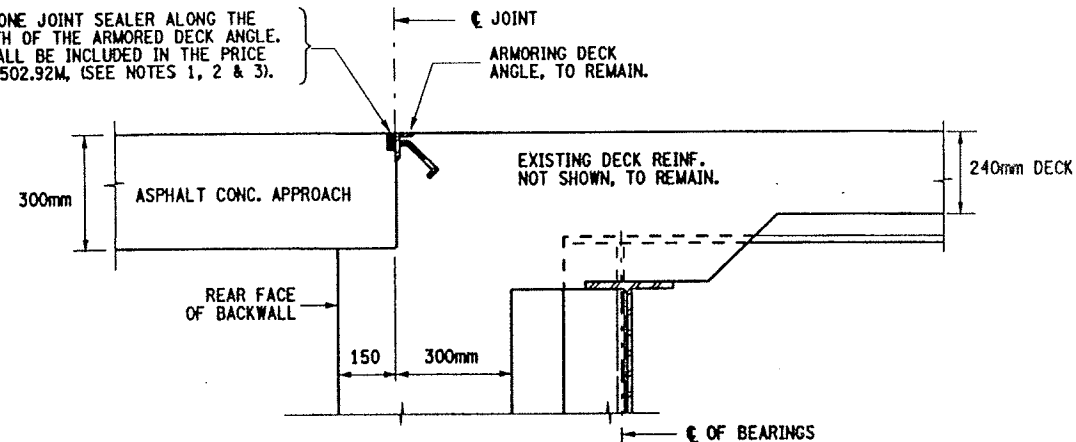
- ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)
- ITEM 556.0202M - EPOXY COATED BAR REINF. FOR STRUCT. (R)
- ITEM 567.31M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (m)
- ITEM 567.32M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (m)
- ITEM 567.35M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m)
- ITEM 567.36M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m)
- ITEM 18567.46M - ELASTOMERIC CONC. FOR BRIDGE JT. SYSTEMS 60
- ITEM 586.01M - DRILL & GROUT REINF. BARS (mm)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE		DATE	
INTERSTATE 481			
COMPRESSION SEAL JOINT DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AJ-JA1	REGION 3	DATE 10/02	DRAWING NO. JD-1

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DRAFTED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

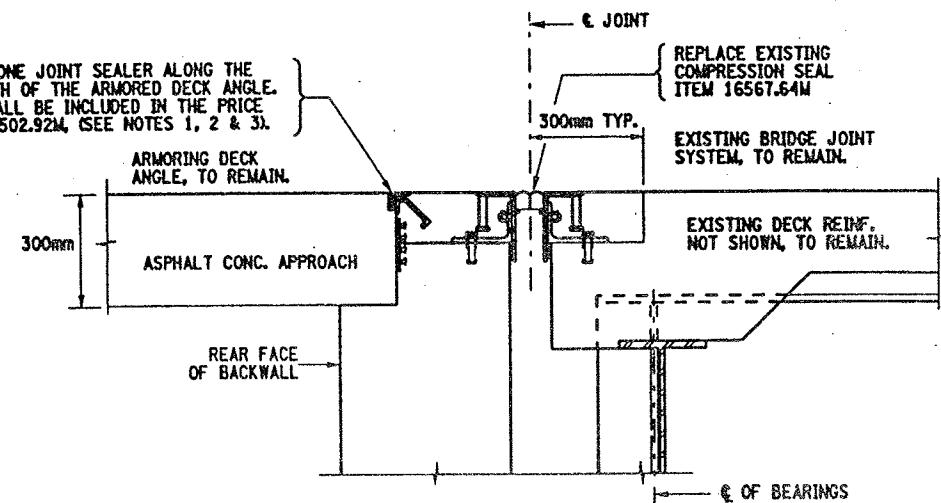
PLACE A SILICONE JOINT SEALER ALONG THE ENTIRE LENGTH OF THE ARMORED DECK ANGLE. ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 502.92M, (SEE NOTES 1, 2 & 3).



TYPICAL SECTION VIEW
EXISTING ARMORED DECK ANGLE AT ABUTMENT

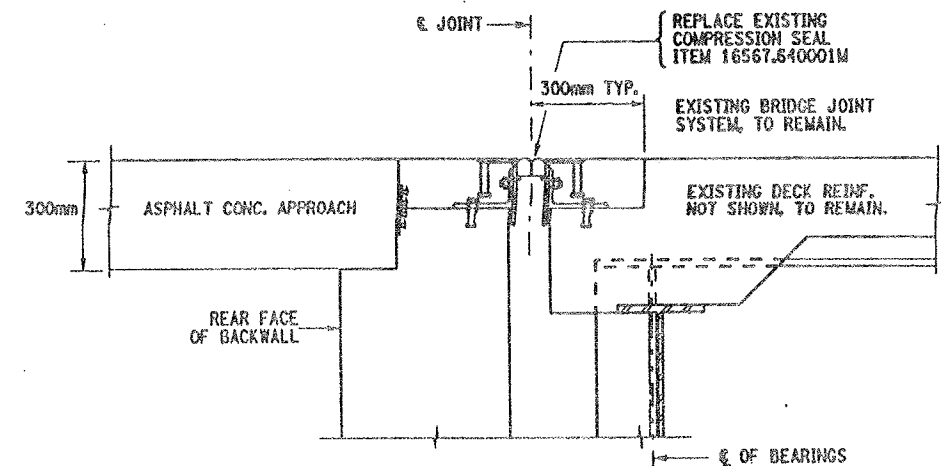
BIN 1093520 - W. ABUT. (BEG. ABUT.)
BIN 1093540 - N. ABUT. (END ABUT.)
NOT TO SCALE

PLACE A SILICONE JOINT SEALER ALONG THE ENTIRE LENGTH OF THE ARMORED DECK ANGLE. ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 502.92M, (SEE NOTES 1, 2 & 3).



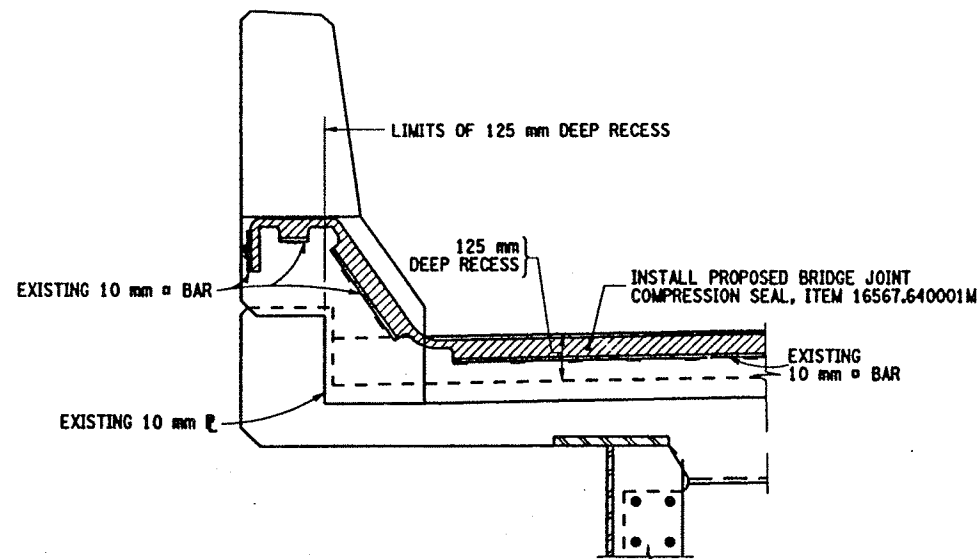
TYPICAL SECTION VIEW
EXISTING ARMORED JOINT SYSTEM AT ABUTMENT

BIN 1093520 - E. ABUT. (END ABUT.)
BIN 1093540 - S. ABUT. (BEG. ABUT.)
NOT TO SCALE



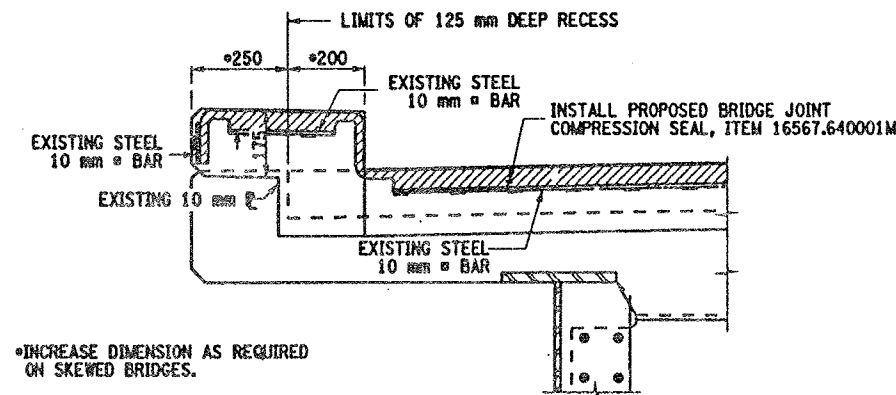
TYPICAL SECTION VIEW
EXISTING ARMORED JOINT SYSTEM AT ABUTMENT

BIN 1072791 - BOTH ABUTMENTS
NOT TO SCALE



PROPOSED JOINT SEAL
TYPICAL (CONCRETE PARAPET)

BIN 1072791 - REPLACE SEAL AT BOTH ABUTMENTS
NOT TO SCALE



*INCREASE DIMENSION AS REQUIRED
ON SKEWED BRIDGES.

PROPOSED JOINT SEAL
TYPICAL (BRUSH CURB)

BIN 1093520 - EAST ABUTMENT
BIN 1093540 - SOUTH ABUTMENT
NOT TO SCALE

LIST OF ITEMS USED:

ITEM 502.92M - SEALING TRANSVERSE JOINTS (M)
ITEM 16567.640001M - REPLACE COMPRESSION SEAL FOR EXISTING BRIDGE JOINT (M)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	411	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. VARIOUS		

DETAILS ON THIS SHEET PERTAIN TO BIN'S 1072791, 1093520 & 1093540.

NOTES:

- 1) TO SEAL THE INTERFACE BETWEEN THE EXISTING ASPHALT APPROACH AND THE EXISTING ARMOR DECK ANGLE, USE A SILICONE JOINT SEALER FROM THE MATERIALS BUREAU APPROVED LIST.
- 2) THE SILICONE JOINT SEALER SHALL BE PLACED TRANSVERSELY FOR THE ENTIRE LENGTH OF THE ARMORED DECK ANGLE.
- 3) PRIOR TO PLACEMENT OF THE SILICONE JOINT SEALER THE AREA SHALL BE CLEANED AND FREE OF ANY LOOSE MATERIAL TO THE SATISFACTION OF THE ENGINEER.
- 4) REFER TO DWG. NO. JT-2 AND JT-3 FOR ADDITIONAL INFORMATION.
- 5) NO PLAN VIEW SHOWN FOR THESE STRUCTURES.
- 6) REFER DWG. NO. JD-43, FOR ADDITIONAL INFORMATION BIN 1072791.

WORK TO BE DONE:

BIN 1072791 -

REPLACE EXISTING COMPRESSION SEALS AT BOTH ABUTMENTS.
BEG. ABUT. (WEST) EXISTING TYPE A-1 ARMORED JOINT SYSTEM
END ABUT. (EAST) EXISTING TYPE A-5 ARMORED JOINT SYSTEM

BIN 1093520 -

BEG. ABUTMENT (WEST ABUT.) - EXISTING ARMORED DECK ANGLE, TO REMAIN. PLACE SILICONE SEALER MATERIAL.

END ABUTMENT (EAST ABUT.) - EXISTING TYPE A-5 ARMORED JOINT SYSTEM WITH COMPRESSION SEAL AND ARMORED DECK ANGLE TO REMAIN. REPLACE COMPRESSION SEAL AND PLACE SILICONE SEALER MATERIAL.

BIN 1093540 -

BEG. ABUTMENT (SOUTH ABUT.) - EXISTING TYPE A-5 ARMORED JOINT SYSTEM WITH COMPRESSION SEAL AND ARMORED DECK ANGLE TO REMAIN. REPLACE COMPRESSION SEAL AND PLACE SILICONE SEALER MATERIAL.

END ABUTMENT (NORTH ABUT.) - EXISTING ARMORED DECK ANGLE, TO REMAIN. PLACE SILICONE SEALER MATERIAL.

TIMBER BARRIER:

BIN 1072791 SB - SOUTH FASCIA (LEFT SIDE) PARAPET HAS A TIMBER NOISE BARRIER ATTACHED TO THE BACK SIDE OF THE PARAPET. THIS TIMBER NOISE BARRIER TO REMAIN IT MAY BE NECESSARY TO TEMPORARILY REMOVE THE SUPPORT BRACKETS TO FACILITATE INSTALLATION OF THE PROPOSED BRIDGE JOINT SEAL.

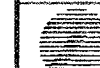
ANY ADDITIONAL SUPPORT TO THE TIMBER NOISE BARRIER DEEMED NECESSARY BY THE ENGINEER, DURING THIS REMOVAL OF THE SUPPORT BRACKETS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 16567.640001M.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

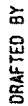
SIGNATURE DATE

I-690 EB RAMP TO I-481 NB & I-481 OVER THOMPSON RD
WN LINE OVER I-481 SB
BRIDGE JOINT DETAILS

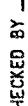
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION



FILENAME	REGION	DATE	DRAWING NO.
305613AJ.JA1	3	10/02	JD-47



ESTIMATED BY

**JOB MANAGER**

SUPERVISOR

- WORK TO BE DONE:**
- BEGINNING ABUTMENT (SOUTH ABUT.) - REMOVE ARMORING DECK ANGLE, REPAIR THE CONCRETE WHERE THE ANGLE WAS REMOVED AND REPAIR ASPHALT APPROACH (OPEN JOINT TO REMAIN). ALSO CLEAN THE EXISTING DRAINAGE SYSTEM, SEE CLEAN DRAINAGE SYSTEM NOTE & DETAILS ON DWG. NO. JD-49.
- END ABUTMENT (NORTH ABUT.) - REMOVE ARMORING DECK ANGLE, REPAIR THE CONCRETE WHERE THE ANGLE WAS REMOVED AND REPAIR ASPHALT APPROACH.

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE _____ DATE _____

INTERSTATE 481 OVER N.B. CONNECTOR

BRIDGE JOINT DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO
305613AJ.JAI	3	10/02	10-48

BIN 1072792

I-81 (Former I-481) NB over Thompson Road

BIN 1072792

Location: I-481 NB over Thompson Road

NYSDOT D031085 PIN 3501.60 - I-81 Viaduct Replacement or New Urban Arterial

City of Syracuse, Onondaga County

Bridge Asbestos Assessment Results

No asbestos containing materials have been identified on this bridge.

The following summarizes the results of the most recent asbestos survey and record plan review.

Watts Inspection Findings (December 2013)

A bridge inspection was completed on 12/9/2013 and the following suspect ACMs were identified and sampled:

- Grey masonry paint
- Bearing pad
- Grey caulk on fence at top of sidewall

None of these materials came back positive for asbestos.

Review of Bridge Record Plans

Record plans (D250416, D259214) were reviewed in support of the field survey. Type D waterstop was identified, however, NYSDOT no longer considers this a suspect material. As a result, there were no suspect ACMs identified.

Previous Survey Results

A previous asbestos survey completed by LaBella in 2001 was reviewed in support of this project. No asbestos containing materials were identified.

No additional sampling and materials testing is required for this structure.



Watts Architecture & Engineering
BRIDGE ASBESTOS FIELD INSPECTION FORM

BIN Number/Location: BIN 1072792-48/NB over Thompson

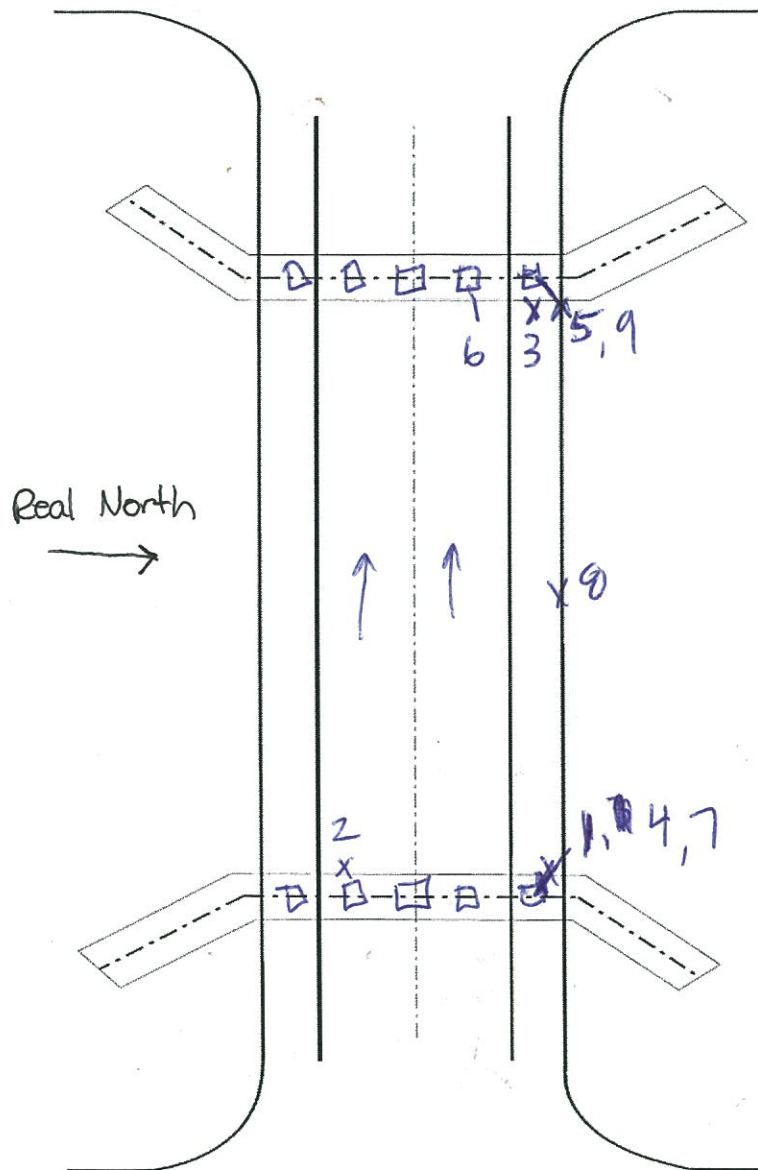
Inspection Date: 12-9-13 Part Top/Part Below

Project Name: I-81 Viaduct Replacement or New Urban Arterial

PIN Number: PIN: 3501.60, D031085

Inspector(s): S. Matthews

Watts Project No: 13092



Field Inspection Checklist			
Item	Investigated	Present	Sampled
Girder Paint <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Truss Paint <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abutment Coating <u>Paint</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Abutment Caulk <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abut. Exp. Jt. Filler <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Headwall Sheet Packing <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearing Pad	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Transite Pipe <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pipe Coating/Wtr. Proof <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scupper Wtr. Proof <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dum Dum Paint <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deck Caulk	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Deck Exp. Jt. Filler <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Approach Sheet Packing <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Railing Paint <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Railing Caulk <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sidewalk Caulk <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lighting Pole Caulk <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Masonry Castings <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Miscellaneous Tar <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Utilities <u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE LOCATION PLAN VIEW - N.T.S.

Notes: No paint on steel under deck
Caulk on top sidewalk at wood wall.
No sheet packing

**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>buffalolab@emsl.com

EMSL Order: 141400420

CustomerID: WATT50A

CustomerPO:

ProjectID:

Attn: **Scott Matthews**
Watts Architecture & Engineering
2610 Salina Street
Syracuse, NY 13205

Phone: (315) 443-8611
 Fax: (315) 443-8605
 Received: 02/04/14 10:10 AM
 Analysis Date: 2/9/2014
 Collected: 12/9/2013

Project: 13092 - 181 Viaduct Replacement or New Urban Arterial Bin 1072792 - 481 NB Over Thompson

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1072792-1 141400420-0001		Description off white/grey masonry paint Homogeneity Heterogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Gray			None Detected
Sample ID 1072792-2 141400420-0002		Description off white/grey masonry paint Homogeneity Heterogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Various			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Various			None Detected
Sample ID 1072792-3 141400420-0003		Description off white/grey masonry paint Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Gray			None Detected
Sample ID 1072792-4 141400420-0004		Description black bearing pad Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Black			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Black			None Detected
Sample ID 1072792-5 141400420-0005		Description black bearing pad Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Black			Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Black			None Detected

**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>buffalolab@emsl.com

EMSL Order: 141400420

CustomerID: WATT50A

CustomerPO:

ProjectID:

Test Report: Asbestos Analysis of Bulk Material

		Non Asbestos		
Test		Color	Fibrous	Asbestos
Sample ID	1072792-6	Description	black bearing pad	
	141400420-0006	Homogeneity	Homogeneous	
PLM NYS 198.1 Friable				Not Analyzed
PLM NYS 198.6 VCM				Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Black		Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Black		None Detected
Sample ID	1072792-7	Description	grey caulk on fence at top of side wall	
	141400420-0007	Homogeneity	Homogeneous	
PLM NYS 198.1 Friable				Not Analyzed
PLM NYS 198.6 VCM				Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray		Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Gray		None Detected
Sample ID	1072792-8	Description	grey caulk on fence at top of side wall	
	141400420-0008	Homogeneity	Homogeneous	
PLM NYS 198.1 Friable				Not Analyzed
PLM NYS 198.6 VCM				Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray		Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Gray		None Detected
Sample ID	1072792-9	Description	grey caulk on fence at top of side wall	
	141400420-0009	Homogeneity	Homogeneous	
PLM NYS 198.1 Friable				Not Analyzed
PLM NYS 198.6 VCM				Not Analyzed
PLM NYS 198.6 NOB	2/7/2014	Gray		Inconclusive: None Detected
TEM NYS 198.4 NOB	2/9/2014	Gray		None Detected

Analyst(s)

Rachel Giese

Rhonda McGee

Rhonda McGee, Laboratory Manager
or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.

All samples examined for the presence of vermiculite when analyzed via NYS 198.1.

-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606

WATTS ARCHITECTURE & ENGINEERING, P.C.
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

141400420

Page: 1 of 1

Date: 12-9-13

Client: C&S / DOT

Project: 181 Viaduct Replacement or New Urban Arterial

Building / Location: BIN 1072792 (481 NB over Thompson)

Contact: Scott Matthews at (315) 443-8611

Email Preliminary Results to: smatthews@watts-ae.com

Mail Invoice to: Accounts Payable
Watts Architecture & Engineering, P.C.
95 Perry Street, Buffalo, NY 14203

Watts Project No.: 13092

Turnaround Requested: 3 Hr. 48 Hr.

Analysis Requested: 6 Hr. 72 Hr.

PLM X TEM X 12 Hr. X 5 Day / week

24 Hr. 6-10 Day rem 2/4/14

Mail Report to: Scott Matthews
Watts Architecture & Engineering, P.C.
2610 S Salina Street, Syracuse, NY 13210

Sample Number	Material Description	Sample Location	Laboratory Results	
			PLM	TEM
1072792-1	off white / grey masonry paint	Masonry block below bearing foot SEC		
2	↓	South abutment wall		
3	↓	North abutment wall		
4	Black bearing pad	SE corner Bearing		
5	↓	NE corner bearing		
6	↓	2nd from NE corner bearing		
7	Grey caulk on fence at top of sidewalk	South end of Bridge / Fence		
8	↓	mid point of Bridge / Fence		
9	↓	North end of Bridge / Fence		

RECEIVED

Sampled By: Scott Matthews Date: 2-3-14 Received By: FEB 04 2014 Date:

Relinquished By: Scott Matthews to FedEx Date: 2-3-14 Received By: BY: [Signature] 10am Date:

Comments: FedEx

BIN 1072792 Inspection Photos

I-81 (Former I-481) NB over Thompson Road

Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



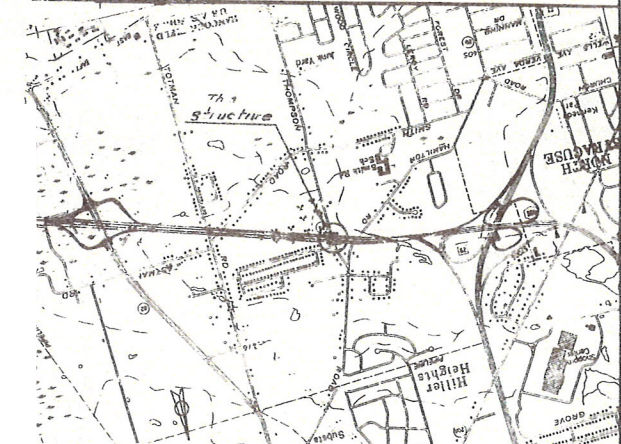
Photo 6



V.R. Eng - TC 11-12-98

1072792
NB

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	1R-81-2(154)	278	380
INTERSTATE RTE. 570 EXTENSION (I-481) NORTHERN BLVD. TO BEAR ROAD INTERCHANGE ONONDAGA COUNTY				
CAPITAL PROJECT IDENTIFICATION NO. 2108-23(1)				



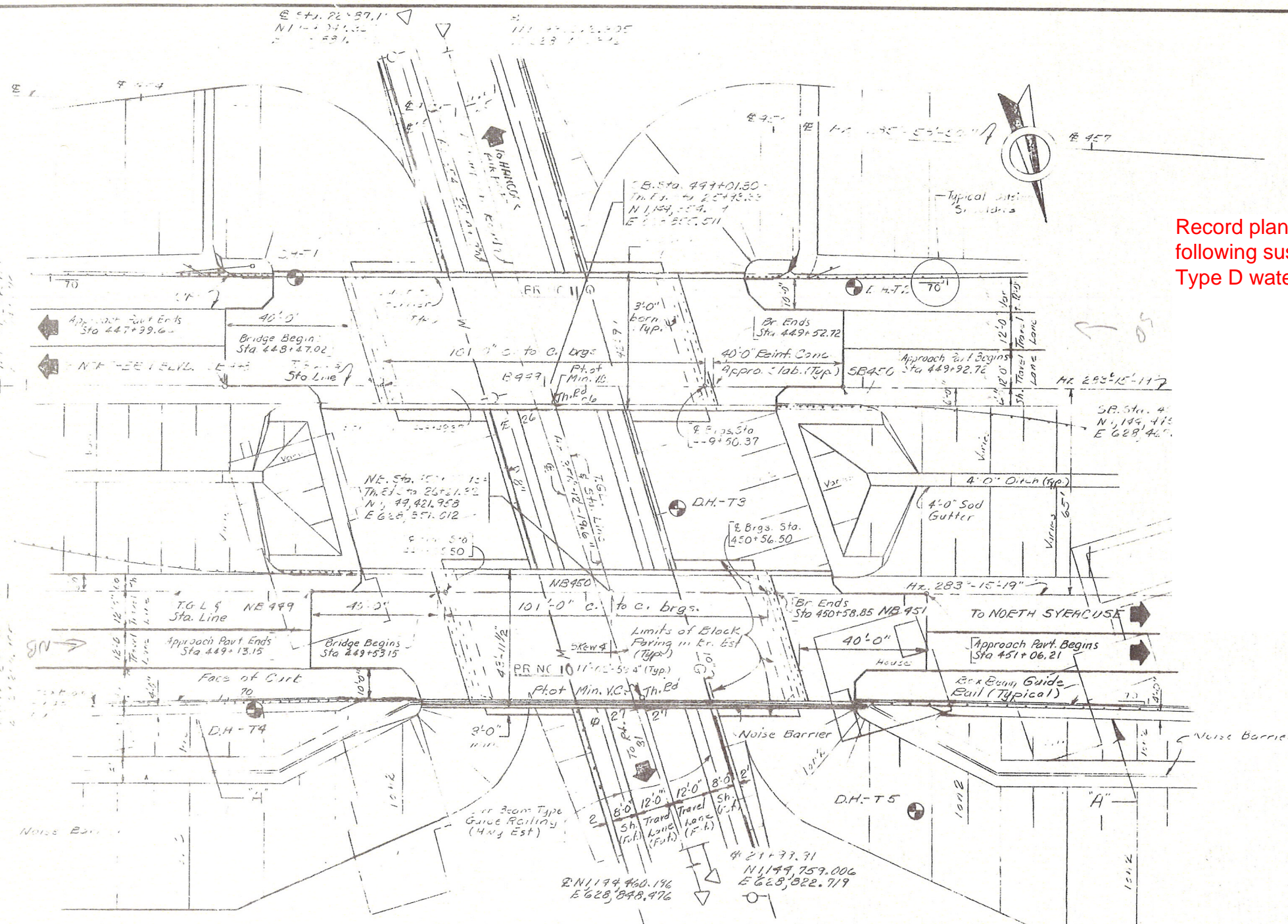
LOCATION MAP
SCALE 1"=200'
CNEED QUADRANGLE

BIN 1072791 (Br. 11) & BIN 1072792 (Br. 10)	
INVENTORY RATING	OPERATING RATING
HS 23(42T)(W.S.)	HS 47(B5T)(W.S.)

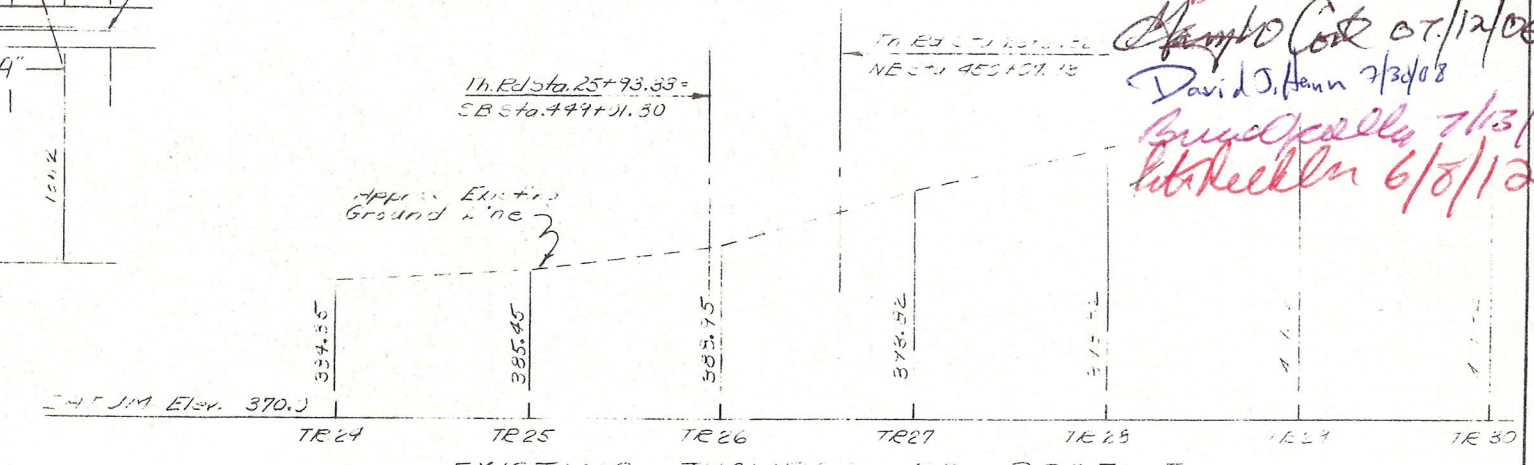
The ratings shown are based on the use of the Type 2 Form System - See Dwg. No. 21 of 38.

10/25/94
Douglas P. Feller 10/16/96
Bruce Pella 11/14/00
Cheryl W. Cook 9/19/02
BTO 9/1/04
Cheryl W. Cook 07/12/06
David J. Henn 7/30/08
Bruce Pella 7/13/10
Lita Keckler 6/8/12

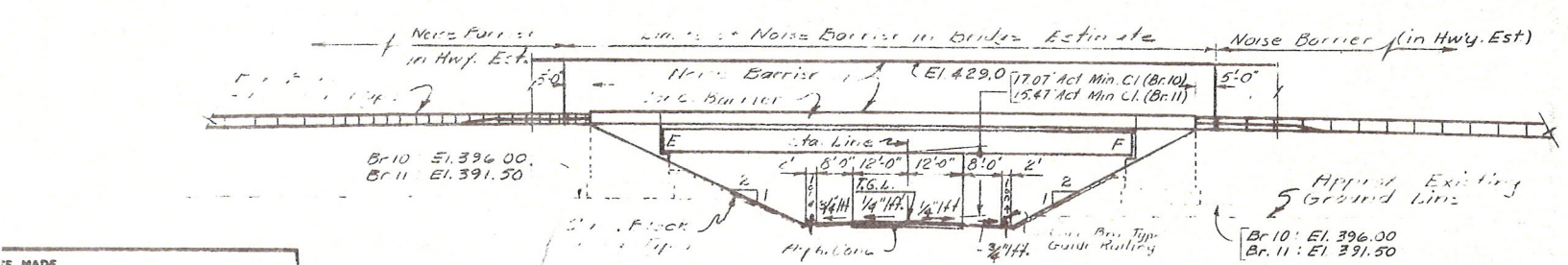
Record plans were reviewed on 3/14/14 by GA. The following suspect material was identified:
Type D waterstop - pages 4 and 5



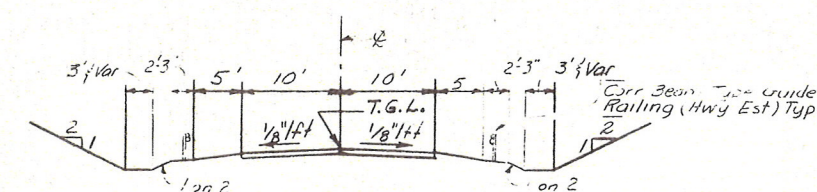
PLAN
SCALE 1"=20'-0"



EXISTING THOMPSON RD. PROFILE
SCALE HORIZ 1"=50'
VERT 1"=10'



ELEVATION "A-A"
SCALE 1"=20'-0"



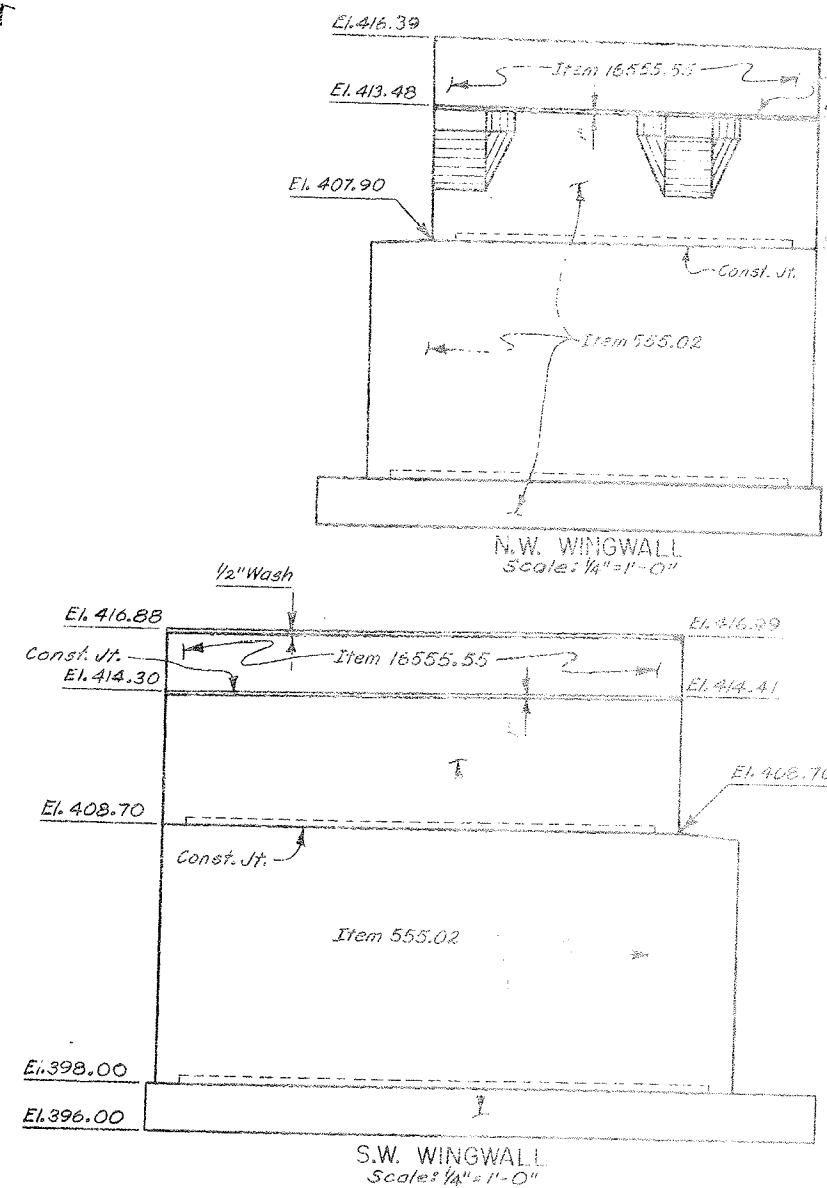
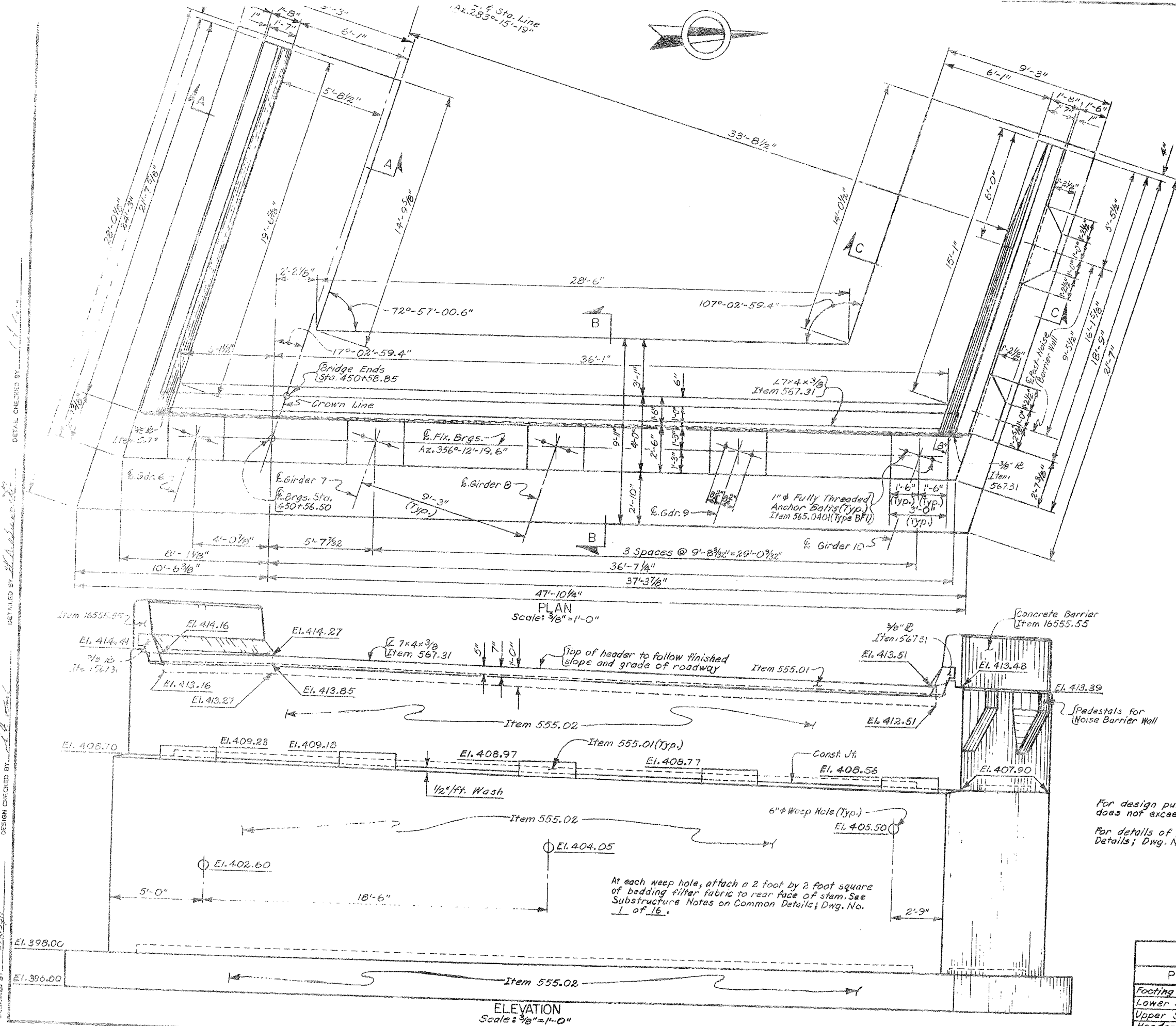
EXISTING THOMPSON RD.
SCALE 1"=10'-0"

MADE BY
PROJECT ENGINEER
CHARGE OF
DESIGNED BY
HIGH CHECKED BY
FILED BY
FALL CHECKED BY

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	1R-81-2(154)	290	380

INTERSTATE RTE. 570 EXTENSION (1-481)
NORTHERN BLYD. TO BEAR ROAD INTERCHANGE
ONONDAGA COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 3107.00(01)



For design purposes, the foundation pressure does not exceed 2 1/2 Tons per square foot.

For details of Noise Barrier Wall, see Common Details; Dwg. No. 16 of 16.

Pedestals shall not be poured until the abutment is backfilled to subgrade elevation.

For Sections A-A thru C-C, see Dwg. No. 17 of 16.

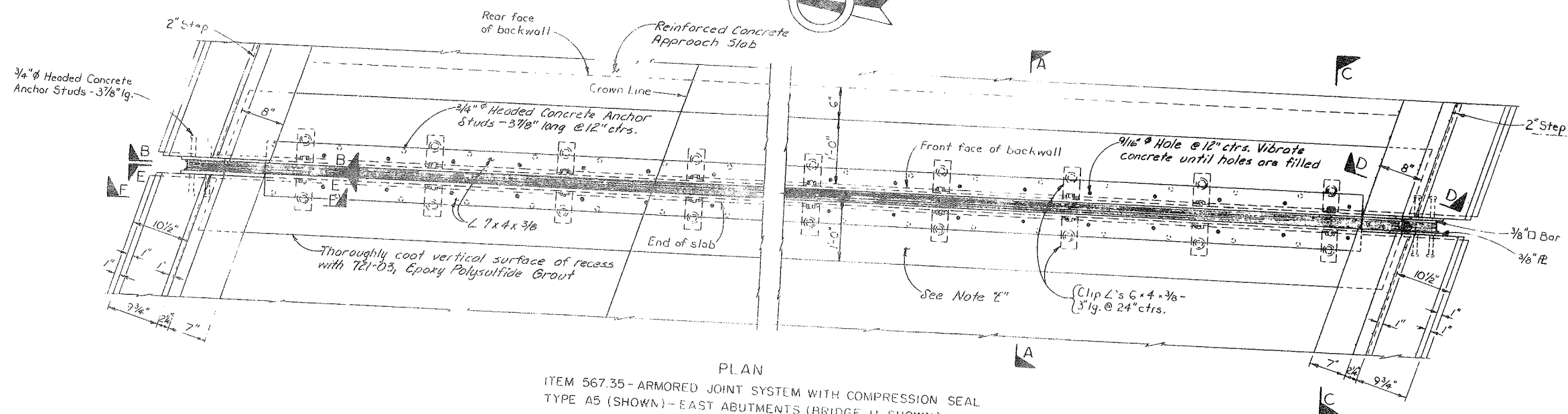
For Keyway Details, see Dwg. No. 9 of 38.

For Conc. Barrier Details, see Dwg. No. 17.

For details of Armored Joint System, Item see Dwg. No. 12 of 38.

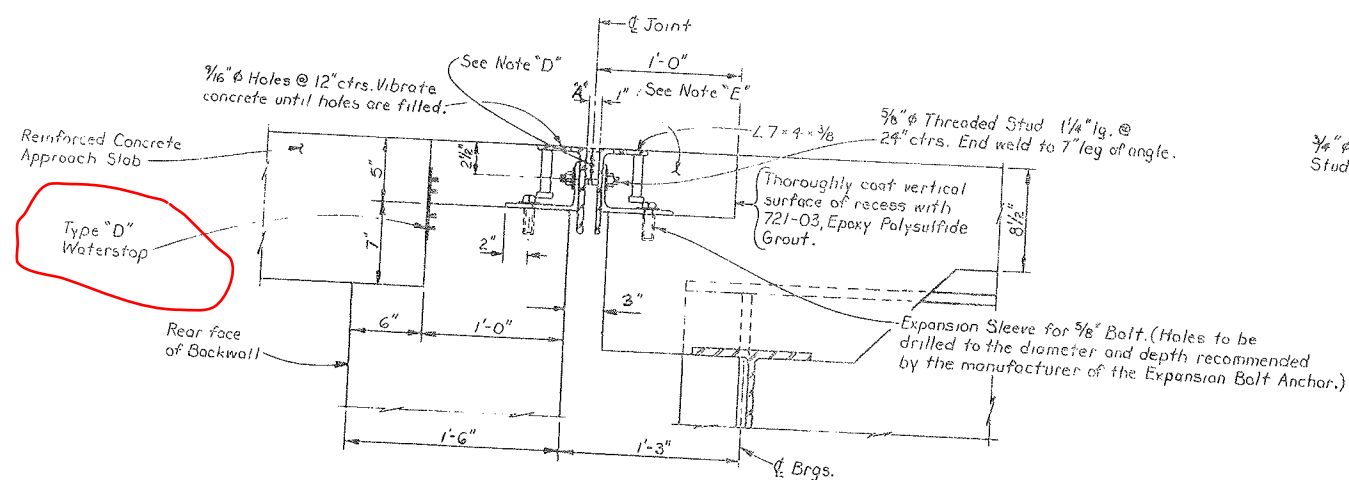
CONCRETE TABLE		
POUR	ITEM 555.01	ITEM 555.02
Footings		54.69 C.Y.
Lower Stem		90.28 C.Y.
Upper Stem		34.58 C.Y.
Header	0.66 C.Y.	
Pedestals	0.97 C.Y.	

FED. RD. RES. NO.	STATE	FEDERAL AID PROJECT NO.	STATE
	NEW YORK	1R-81-2(154)	2
INTERSTATE RTE. 870 EXTENSION (I-48) NORTHERN BLVD. TO BEAR RD. INTERCH. ORANGETOWN COUNTY			
CAPITAL PROJECT IDENTIFICATION NO. 3107.00			



Note
Details and dimensions of Armored Joint System to be used on Bridge 10 identical to those shown on drawing and drawing No. 20 of 38. Armored Joint System is not by the structural slab extends on the North side of Bridge 10.

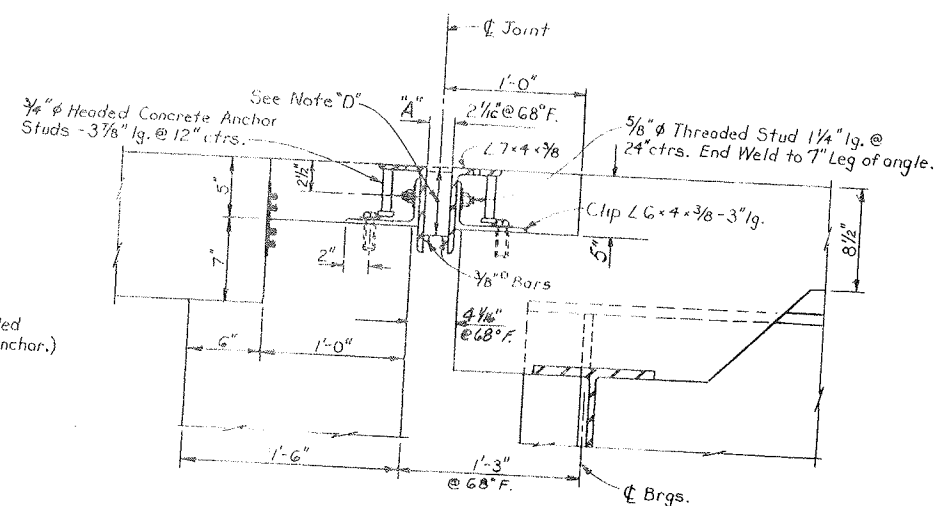
PLAN
ITEM 567.35 - ARMORED JOINT SYSTEM WITH COMPRESSION SEAL
TYPE A5 (SHOWN) - EAST ABUTMENTS (BRIDGE 11 SHOWN)
ITEM 567.31 - ARMORED JOINT SYSTEM WITH COMPRESSION SEAL
TYPE A1 (SIMILAR) - WEST ABUTMENTS
Scale: 1" = 1'-0"



WEST ABUTMENTS

Unless otherwise indicated, notes and details of West and East Abutments are similar.

SECTION A-A
SCALE: 1 1/2" = 1'-0"



EAST ABUTMENTS

Note "D"
This depth shall be indicated on the shop drawing and shall be such that when the seal is compressed of its normal width, the top of the seal shall be no more than 1/4" nor more than 3/4" below the top of roadway.

Note "E"
Concrete in recesses on superstructures provided installing the Armored Joint System shall comply with Specifications for Item 15555.04, except that maximum finishing will not be required. No additional payment be made for furnishing and placing this concrete quantity lies within the limits of the area to be paid under Item 15555.04.

It is desirable to have the Armored Joint with Compression Seal assembled in the shop and delivered to the job site all set for installation in its preformed recess structural slab. In cases where the Armored Joint be assembled in the shop, due to its excessive length causing shipping problems, the joint shall be sealed the Compression Seal before the structure is opened to traffic, and before discontinuing operation when work suspended during the winter.

The cost of furnishing and placing the Epoxy Polysulfide Grout shall be included in the unit price for Item 15555.04.

For details of Headed Concrete Anchor Stud and Cutting Seal, see Dwg. No. 20 of 38.

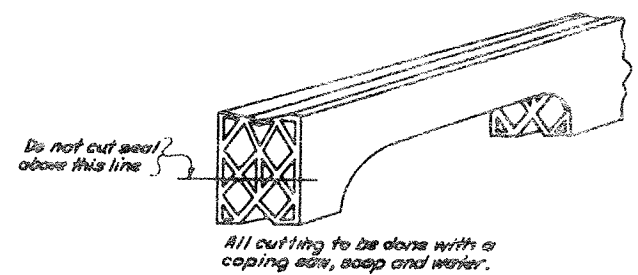
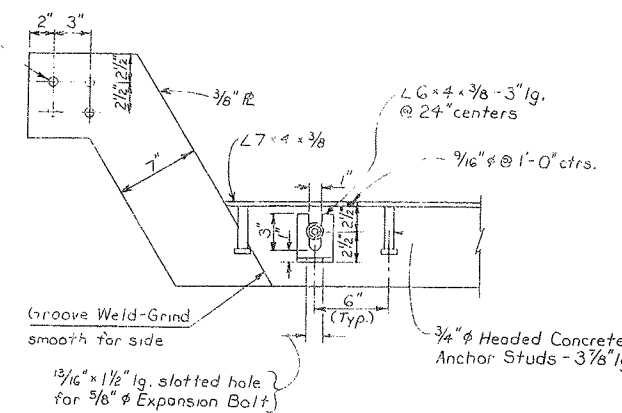
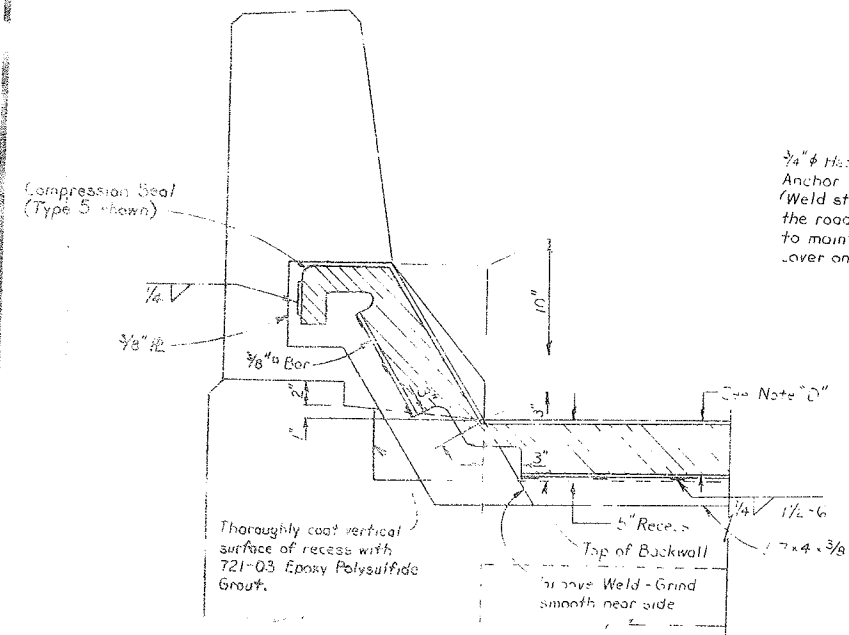
For sections B-B thru F-F, see Dwg. No. 20 of 38.

For details of Clip Angle, see Dwg. No. 20 of 38.

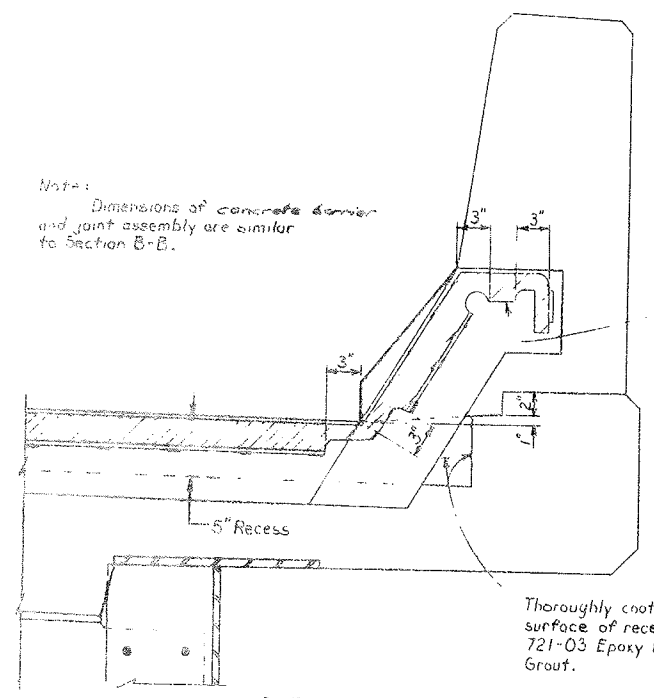
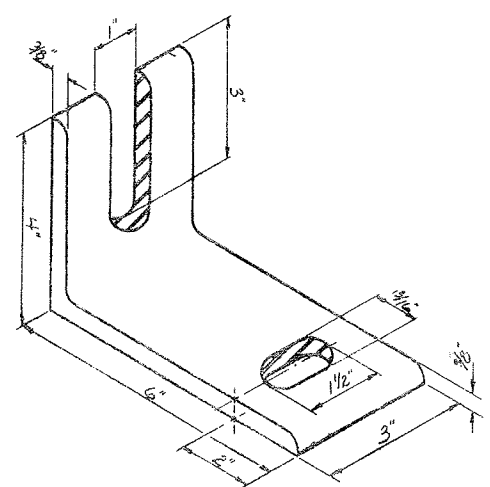
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN AND CONSTRUCTION DIVISION	
Ordinances 50 & 11 over Thompson Rd.	
ARMORED JOINTS AT ABUTMENTS	
PROJ. ENG. <i>[Signature]</i>	DATE MADE <i>[Date]</i>
SQUAD <i>[Signature]</i>	REVISION <i>[Signature]</i>

DESIGNED BY: J.E.R. 10/25/54
DETAIL CHECKED BY: J.H.C.

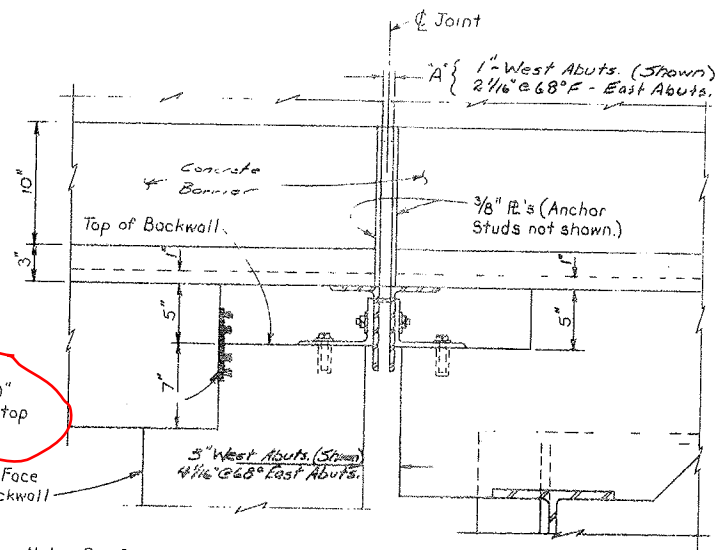
DESIGN CHECKED BY:



The seal shall be supplied in one piece for the full length of joint. Splices will not be permitted when the length of this piece is less than 50 feet. For lengths up to 100 feet one shop splice will be permitted. For lengths in excess of 100 feet shop splices may be placed at approximately 50 foot intervals.

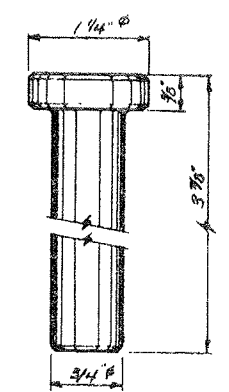
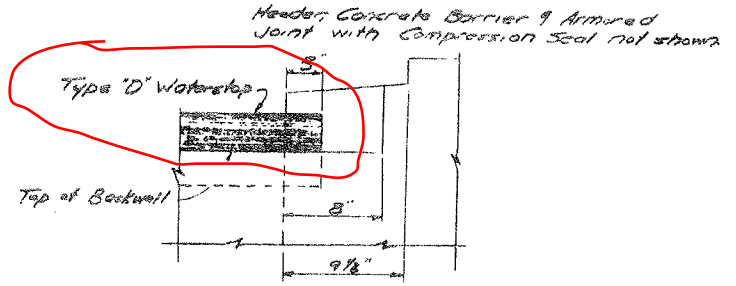


Compression Seal (Type 1 shown)



Note: Reinforcement not shown.

Type "D" Waterstop



SEALS				ARMORED JOINT SYSTEM	
TYPE	NO.	WIDTH	DIMENSION	TYPE	LOCATION
1		1 1/4"	1"	A1	West Abutment
5		5 1/2"	2 1/4" @ 60° F.	A5	East Abutment

For Notes D & E, see
For location of Seal
see Dwg. No. 190.

GIRDER TABLE										
GIRDER	DECK FORM TYPE**	TOP FLANGE				BOTTOM FLANGE				WEB
		R A	R B	R C	R D	R E	R F	R G	R H	
1-5	1	16" x 1 1/8"	16" x 3/4"	16" x 3/4"	16" x 2"	16" x 3/4"	16" x 1 1/2"	16" x 1 1/2"	16" x 3/4"	44" x 1/2"
6-9	2	17" x 1 1/8"	17" x 3/4"	17" x 3/4"	17" x 2"	17" x 3/4"	17" x 1 1/2"	17" x 1 1/2"	17" x 3/4"	44" x 1/2"
10	2	17" x 1 1/8"	17" x 3/4"	17" x 3/4"	17" x 2"	17" x 3/4"	17" x 1 1/2"	17" x 1 1/2"	17" x 3/4"	44" x 3/16"
1-5	2	16" x 1 1/8"	16" x 3/4"	16" x 3/4"	17" x 2"	17" x 3/4"	17" x 1 1/2"	17" x 1 1/2"	17" x 3/4"	44" x 1/2"
6-9	2	17" x 1 1/8"	17" x 3/4"	17" x 3/4"	18" x 2"	18" x 3/4"	18" x 1 1/2"	18" x 1 1/2"	18" x 3/4"	44" x 1/2"
10	2	17" x 1 1/8"	17" x 3/4"	17" x 3/4"	18" x 2"	18" x 3/4"	18" x 1 1/2"	18" x 1 1/2"	18" x 3/4"	44" x 3/16"

** Type 1 Forms are removable or integral prestressed concrete.

Type 2 Forms are permanent corrugated metal.

* F.P.G.W. = Full Penetration Groove Weld

M.B. = Mill to Bear

STUD SHEAR CONNECTOR SPACING-ITEM 556.03		
GIRDER	SPACING	TOTAL STUDS
1-5	6'-11.0 sp. (111 pairs) @ 11" = 100'-10"	1110
6-9	8'-13.4 sp. (135 pairs) @ 9" = 100'-6"	1080
10	6'-11.0 sp. (111 pairs) @ 11" = 100'-10"	222

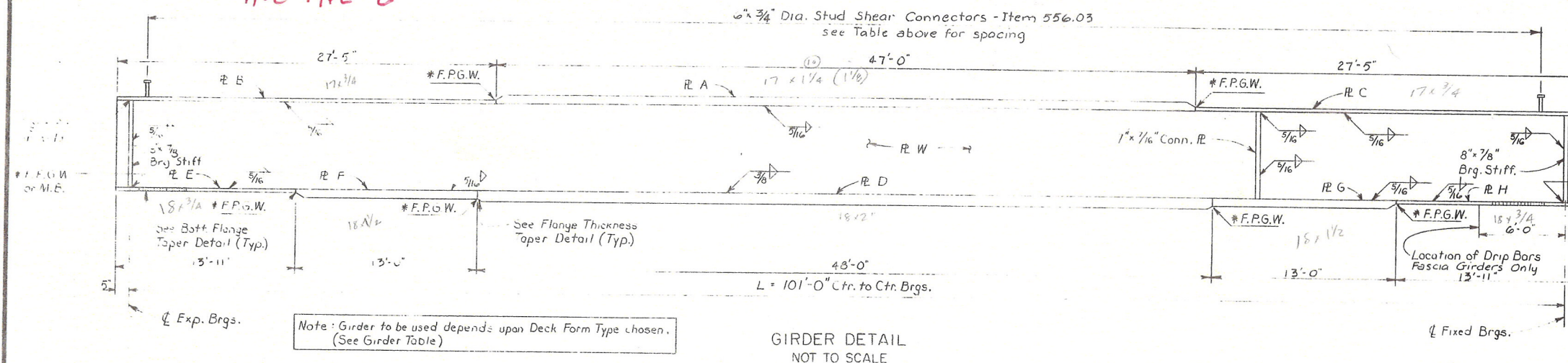
End of Girder

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	1B-81-2(154)	298	380

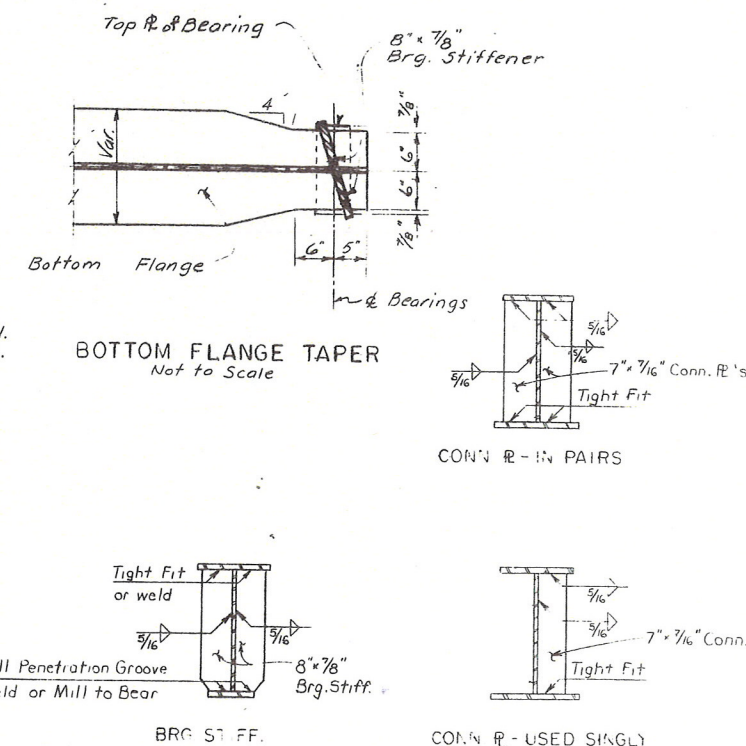
INTERSTATE RTE. 570 EXTENSION (I-481)
NORTHERN BLVD. TO BEAR ROAD INTERCHANGE
OWNAGA COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 3107.00 (01)

ALL TYPE 2



GIRDER DETAIL
NOT TO SCALE



GIRDER SECTIONS
NOT TO SCALE

CAMBER TABLE		0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L
GIRDER 1-5	VERTICAL CURVE (FT.)	.01	.01	.02	.02	.02	.02	.02	.02	.01
	STEEL D.L. (FT.)	.02	.04	.05	.06	.06	.06	.05	.04	.02
	CONCRETE D.L. (FT.)	.09	.17	.23	.27	.28	.27	.23	.17	.09
	SUPERIMPOSED D.L. (FT.)	.02	.03	.04	.05	.05	.05	.04	.03	.02
	TOTAL (FT.)	.14	.25	.34	.40	.41	.40	.34	.26	.14
GIRDER 6-9	VERTICAL CURVE (FT.)	.01	.02	.02	.03	.03	.03	.02	.02	.01
	STEEL D.L. (FT.)	.02	.04	.05	.06	.06	.06	.05	.04	.02
	CONCRETE D.L. (FT.)	.09	.16	.23	.26	.28	.26	.23	.16	.09
	SUPERIMPOSED D.L. (FT.)	.02	.03	.04	.05	.05	.05	.04	.03	.02
	TOTAL (FT.)	.14	.25	.34	.40	.42	.40	.34	.26	.14
GIRDER 10	VERTICAL CURVE (FT.)	.01	.02	.02	.02	.02	.03	.02	.01	.01
	STEEL D.L. (FT.)	.02	.04	.05	.06	.06	.06	.05	.04	.02
	CONCRETE D.L. (FT.)	.08	.16	.21	.25	.26	.25	.21	.16	.08
	SUPERIMPOSED D.L. (FT.)	.03	.06	.08	.09	.10	.09	.08	.06	.03
	TOTAL (FT.)	.14	.28	.36	.42	.44	.43	.36	.27	.14

Note: Tables of Camber, Design Load & Moment and Shear are based upon use of the girder which would be used with Deck Form Type 2. (See Girder Table above.)

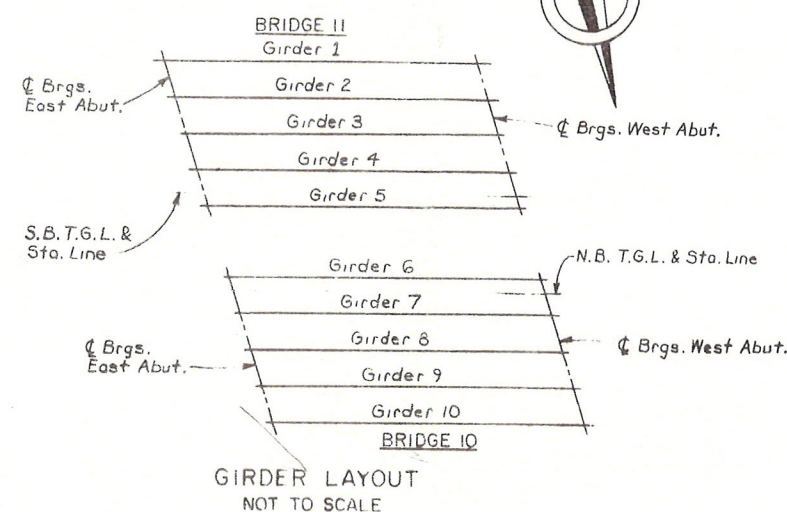
MOMENT & SHEAR TABLE		GIRDER 1-5		GIRDER 6-9		GIRDER 10	
		Q BRG.	MID. PT.	Q BRG.	MID. PT.	Q BRG.	MID. PT.
D.L.	MOMENT	70	1758	72	1824	73	1844
	SHEAR	18	456	18	456	35	887
S.D.L.	MOMENT	18	1526	18	1583	35	1380
	SHEAR	65	29	67	30	58	26

Shears are expressed as Kips. Live Load Moments and Shears include Impact.

Moments are expressed as Foot Kips.

DESIGN LOAD TABLE		GIRDER 1-5	GIRDER 6-9	GIRDER 10
	UNIT	LOAD / FT.	LOAD / FT.	LOAD / FT.
S.L.D.L.	SLAB	0.948 K/FT.	0.983 K/FT.	0.983 K/FT.
	HAUNCH	0.039 K/FT.	0.042 K/FT.	0.042 K/FT.
	GIRDER	0.235 K/FT.	0.245 K/FT.	0.259 K/FT.
	S.I.P. FORMS	0.121 K/FT.	0.125 K/FT.	0.125 K/FT.
	DIAPHRAGMS	0.040 K/FT.	0.040 K/FT.	0.040 K/FT.
S.D.L.	TOTAL	1.383 K/FT.	1.435 K/FT.	1.449 K/FT.
	CONC BARRIER	0.200 K/FT.	0.200 K/FT.	0.200 K/FT.
	NOISE BARRIER	0.158 K/FT.	0.158 K/FT.	0.158 K/FT.
	FUTURE W.S.	0.158 K/FT.	0.158 K/FT.	0.158 K/FT.
	TOTAL	0.358 K/FT.	0.358 K/FT.	0.696 K/FT.

Assumed Live Load = HS 20-44



GIRDER LAYOUT
NOT TO SCALE

CAMBER NOTES

- The camber labeled "Vertical Curve" in the table is the camber required to follow the vertical curve.
- The camber labeled "Steel D.L." in the table is the camber required to offset the deflection due to the dead load weight of the girder as fabricated.
- The camber labeled "Concrete D.L." in the table is the camber required to offset the deflection due to the dead load weight of the concrete slab.
- The camber labeled "Superimposed D.L." in the table is the camber required to offset the deflection due to the weight of the curb, sidewalk, railing and future wearing surface.
- The total camber is the sum of vertical curve, steel dead load, concrete dead load and superimposed dead load. All camber offsets are measured vertically to the top of web from a straight reference line drawn from the intersection of top of web and centerline of bearing at one end of the girder to the corresponding point at the other end of the girder.
- Positive numbers in the table are above the straight reference line.
- Negative numbers in the table are below the straight reference line.
- The camber offsets are tabulated in decimals of a foot.

For Superstructure Notes, see Common Details; Dwg. No. 1 of 16.

All structural steel shall be ASTM A588 steel, unpainted.

For Stud Shear Connector Details, see Common Details Dwg. No. 5 of 16.

For details of Flange Thickness Taper, see Common Details; Dwg. No. 5 of 16.

The ends of girders and bearing stiffeners shall be vertical. All conn. R's may be perpendicular to the top flange.

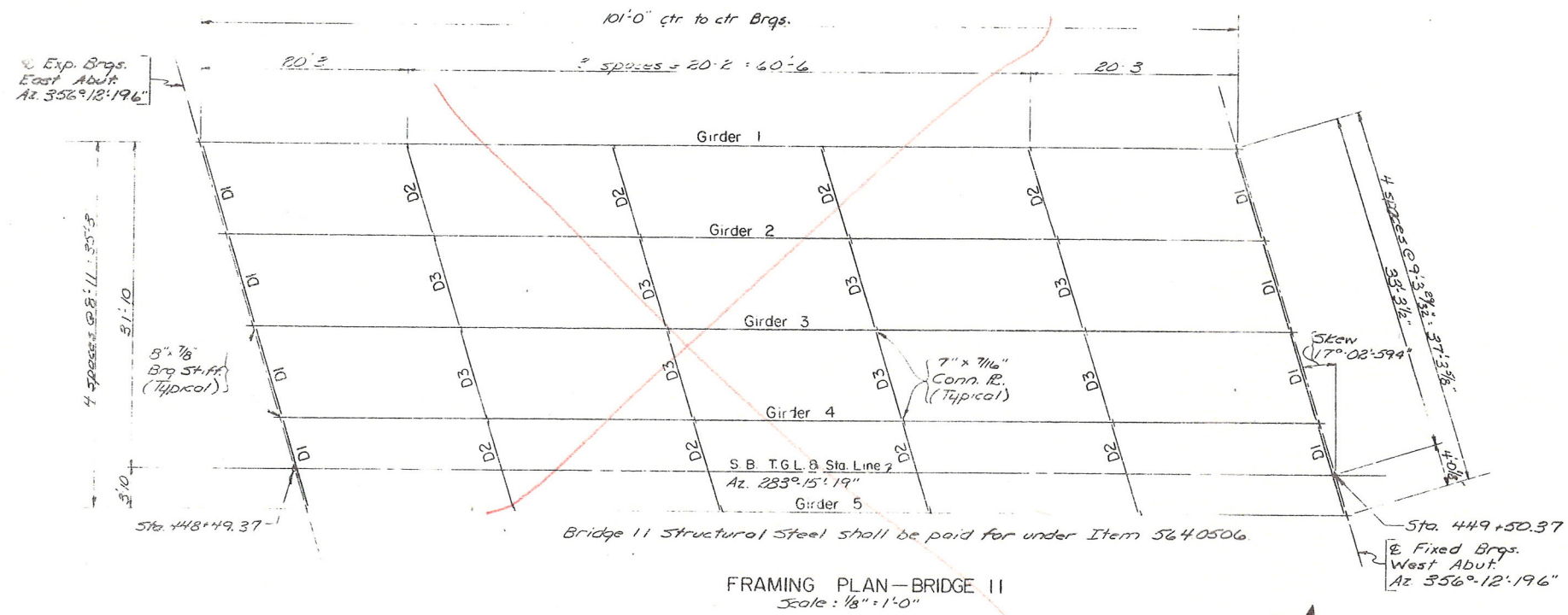
For layout of connection plates, see Dwg. No. 22 of 38.

For Haunch detail, see Dwg. No. 23 of 38.

For Drip Bar Details, see Common Details; Dwg. No. 5 of 16.

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN AND CONSTRUCTION DIVISION	
Bridges 10 & 11 over Thompson Rd.	
GIRDER DETAILS, TABLES: CAMBER, MOMENT & SHEAR, AND DESIGN LOADS	
PROJ. ENG. <i>S. J. Barry</i>	DATE MADE
SQUAD <i>11</i>	DRAWING NO. 21 OF 38

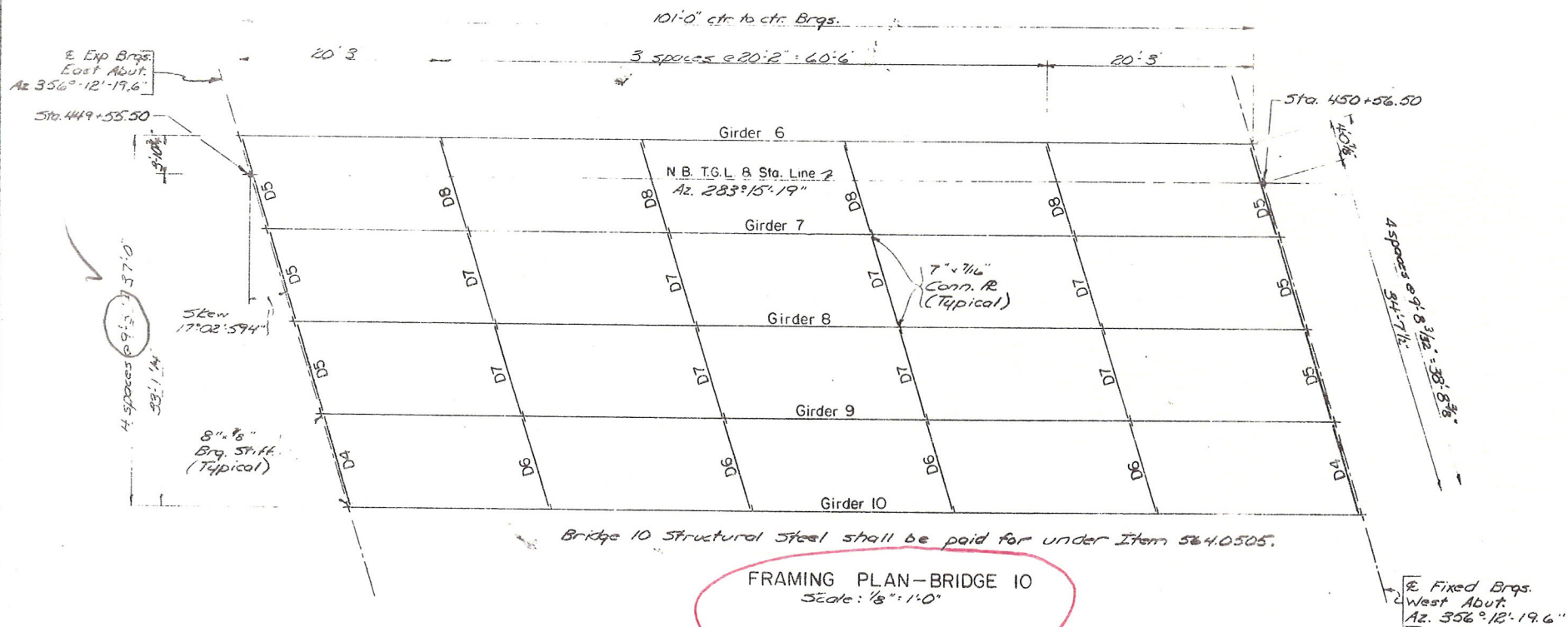
FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.
	NEW YORK	1R-81-2(154)
INTERSTATE RTE. 570 EXTENSION (NORTHERN BLVD. TO BEAR ROAD INTER) ONONDAGA COUNTY		
CAPITAL PROJECT IDENTIFICATION NO. 3107		



FRAMING PLAN-BRIDGE 11
Scale: 1/8" = 1'-0"



26-



FRAMING PLAN-BRIDGE 10
Scale: 1/8" = 1'-0"

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN AND CONSTRUCTION	
Bridges 10 & 11 over Thompson	
FRAMING PLANS	
PROJ. ENG. E. J. Barry	DATE MADE

DESIGNED BY: D. J. Barry
CHECKED BY: S. P. Holland
DETAIL CHECKED BY: S. P. Holland

Concrete Barrier
Item 16555.55

See Detail A;
Dwg. No. 23 of 38.

N.B. T.G.L.
(6SE3 (Straight)
Alternate with
5SE2.

Structural Slab Concrete
(Optional Forming Systems)
Item 15555.04

Stud Shear Connectors
for Bridges, Item 556.03

(6SE22 (Hooked)
Alternate with
6SE3.

See Detail B

DECK FORM OPTIONS

1. Removable Forms
2. Prestressed Concrete Form Units
(See Dwg. No. 23 of 38.)
3. Permanent Corrugated Metal
Forms (See details, Dwg. No. 23 of 38)

Notes:
Reinforcement shown above and
on Dwg. Nos. 23 & 24 of 38
assumes use of Removable or
Permanent Corrugated Metal Forms.
For modified reinforcement to be used
with Prestressed Concrete Form Units,
See Dwg. No. 23 of 38.

Payment Lines for Item 15555.04

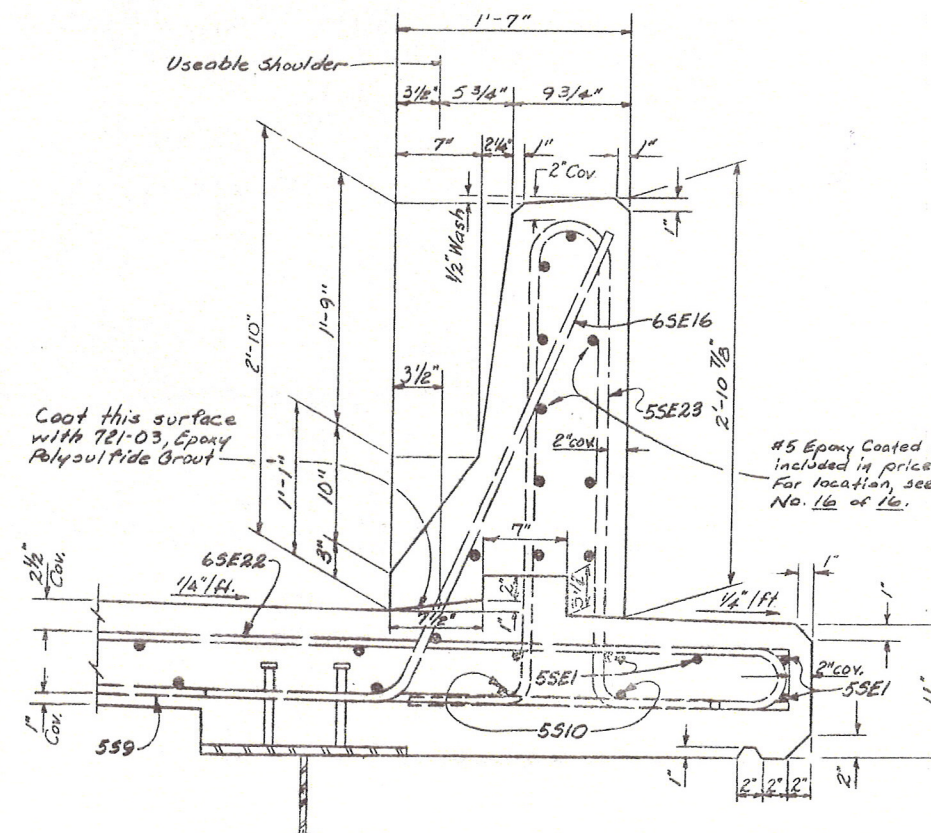
TRANSVERSE SECTION-BRIDGE 10

Scale: 1/2"=1'-0"

**FASCIA OVERHANG
AVERAGE OUT TO 3'-5 3/4"**

HAUNCH TABLE											
BRIDGE 10											
	Q. PRG.	O. 1L	O. 2L	O. 3L	O. 4L	O. 5L	O. 6L	O. 7L	O. 8L	O. 9L	Q. BRG.
(A) Reg'd. bottom of slab elevation	413.90	413.86	413.83	413.79	413.76	413.72	413.67	413.63	413.58	413.54	413.49
(B) Top of steel El. (Field meas.)											
(C) = (A) - (B)											
(D) Concrete + S.D.L. Deflection	0	0.11	0.19	0.27	0.31	0.33	0.31	0.27	0.19	0.11	0
(E) Depth of haunch req'd. = (C) + (D) ft.											
(A) Reg'd. bottom of slab elevation	413.66	413.62	413.73	413.75	413.72	413.67	413.63	413.59	413.54	413.49	413.44
(B) Top of steel El. (Field meas.)											
(C) = (A) - (B)											
(D) Concrete + S.D.L. Deflection	0	0.11	0.19	0.27	0.31	0.33	0.31	0.27	0.19	0.11	0
(E) Depth of haunch req'd. = (C) + (D) ft.											
(A) Reg'd. bottom of slab elevation	413.66	413.62	413.59	413.55	413.51	413.47	413.43	413.38	413.33	413.29	413.23
(B) Top of steel El. (Field meas.)											
(C) = (A) - (B)											
(D) Concrete + S.D.L. Deflection	0	0.11	0.19	0.27	0.31	0.33	0.31	0.27	0.19	0.11	0
(E) Depth of haunch req'd. = (C) + (D) ft.											
(A) Reg'd. bottom of slab elevation	413.45	413.42	413.39	413.35	413.31	413.27	413.22	413.18	413.13	413.08	413.03
(B) Top of steel El. (Field meas.)											
(C) = (A) - (B)											
(D) Concrete + S.D.L. Deflection	0	0.11	0.19	0.27	0.31	0.33	0.31	0.27	0.19	0.11	0
(E) Depth of haunch req'd. = (C) + (D) ft.											
(A) Reg'd. bottom of slab elevation	413.25	413.22	413.18	413.14	413.10	413.06	413.02	412.97	412.92	412.87	412.82
(B) Top of steel El. (Field meas.)											
(C) = (A) - (B)											
(D) Concrete + S.D.L. Deflection	0	0.11	0.22	0.29	0.34	0.36	0.34	0.29	0.22	0.11	0
(E) Depth of haunch req'd. = (C) + (D) ft.											

Note: Computations in the Haunch Table shall be algebraic.



DETAIL B
Scale: 1/2"=1'-0"

Note:

Haunch Table is based upon use of
the Girder which would be used with
Deck Form Type 2. (See Girder Tables;
Dwg. No. 21 of 38.)

NEW YORK	STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION	STRUCTURAL DESIGN AND CONSTRUCTION
CAPITAL PROJECT IDENTIFICATION NO. 3107	

DIAPHRAGMS D-5 - D-8 NOT S		
(SEE DWG. NO. 22 OF 38)		
BRIDGE 10 DIAPHRAGM	SAME AS BRIDGE 11 DIAPHRAGM ON DWG. NO. 23 OF 38	EXCER
D5	D1	Membe
D6	D2	Member D6 angle
D7	D3	Membe
D8	D2	Member

For Diaphragm Notes, see Dwg.
No. 23 of 38.

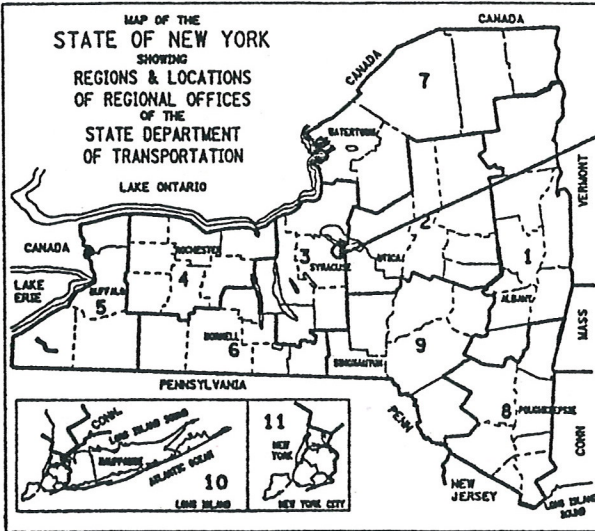
CONCRETE TABLE	
PCUR	ITEM
Structural Slab	4542

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
STRUCTURAL DESIGN AND CONSTRUCTION

Bridge 10 over Thompson Rd.

TRANSVERSE SECTION & HAUNCH
BRIDGE 10

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	1-481-2(154) 1B-81-2(154)	304	380
INTERSTATE RTE. 570 EXTENSION (I-481) NORTHERN BLVD. TO BEAR ROAD INTERCHANGE ONONDAGA COUNTY				
CAPITAL PROJECT IDENTIFICATION NO. 3107.00 (01)				



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)
VARIOUS BRIDGES ON INTERSTATE 481
TOWNS OF DEWITT AND CICERO

VOLUME 1 OF 2

432 SHEETS

ONONDAGA

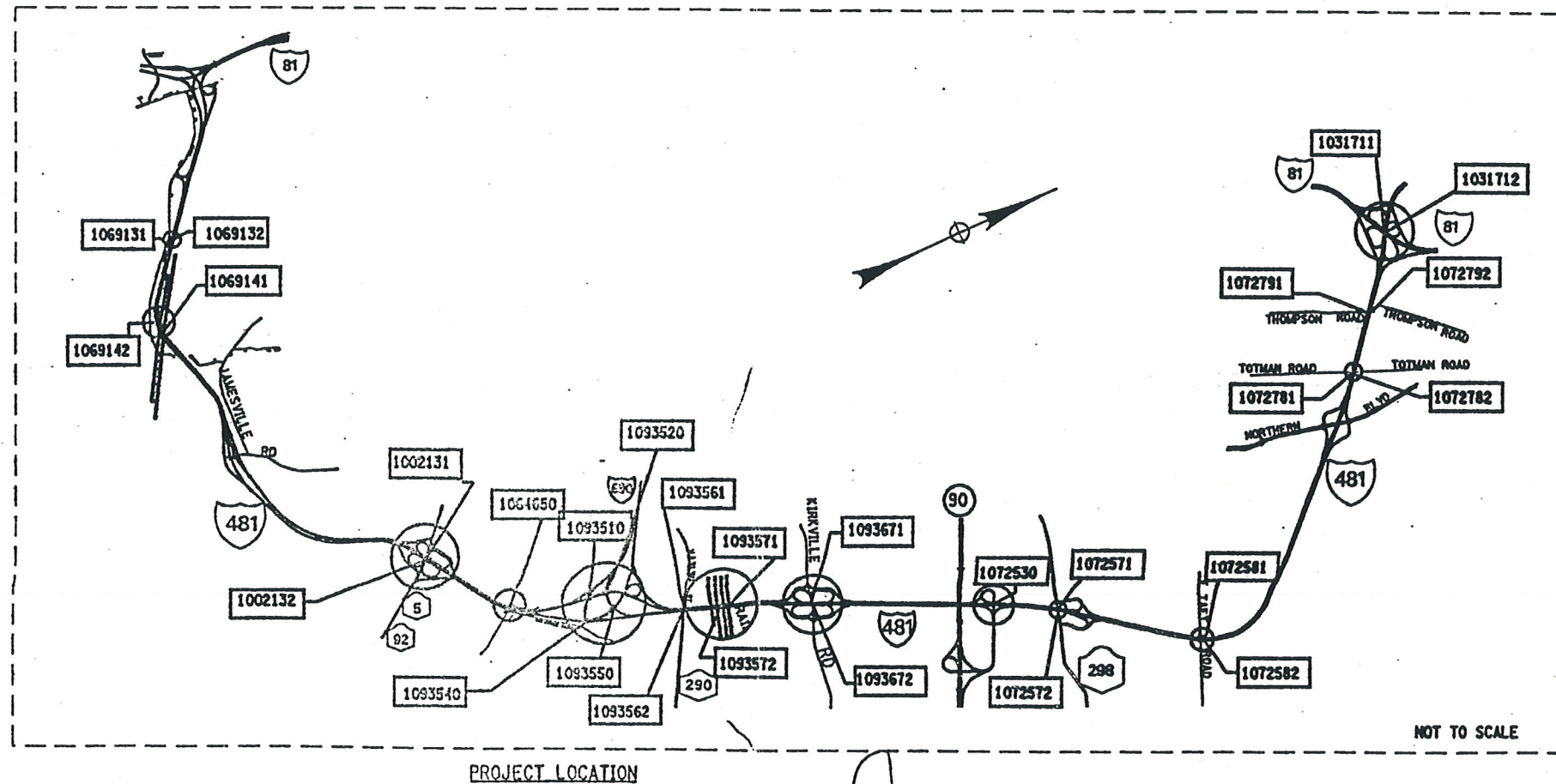
COUNTY

CONTRACT D259214

F.A. PROJECT

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (METRIC UNITS) OF JANUARY 2, 2002, AS AMENDED BY ADDENDA NOS. 1 AND 2, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

CONTRACTOR'S NAME _____
AWARD DATE _____
COMPLETION DATE _____
FINAL ACCEPTANCE DATE _____
REGIONAL DIRECTOR _____
ENGINEER IN CHARGE _____
FINAL COST TOTAL _____
FISCAL SHARE _____ COST(S) _____



NOT TO SCALE

BRIDGE REHAB. PROJ.- ELEMENT SPECIFIC
VARIOUS BRIDGES ON INTERSTATE 481
TOWNS OF DEWITT AND CICERO
ONONDAGA COUNTY

FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	N.Y.	1	432

FEDERAL AID PROJECT NO.	
CAPITAL PROJECT IDENTIFICATION NO.	3056.13

INDEX ON SHEET NO. 5 & 6

RECOMMENDED BY: John E. Fitch
REGIONAL DESIGN ENGINEER

RECOMMENDED BY
6/4/02 Murray A. Shirley
DATE REGIONAL CONSTRUCTION ENGINEER

RECOMMENDED BY 4/03 [Signature] 9/04/02
DATE REGIONAL TRANSPORTATION MAINTENANCE ENGINEER DATE

RECOMMENDED BY [Signature] 94-02
REGIONAL TRAFFIC ENGINEER DATE

APPROVED BY W. J. S. [Signature] DATE 09-09-02
REGIONAL DIRECTOR

CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

DATE

DESIGN NUMBER

INDEX		
SHEET NO.	DESCRIPTION	DRAWING NO.
1	TITLE SHEET	COVER
2,3,4	ESTIMATE OF QUANTITIES	
5,6	INDEX	IDX-1 - IDX-2
7-155	MAINTENANCE AND PROTECTION OF TRAFFIC	MPT-1 - MPT-149
156	CROSSOVER TYPICAL SECTION	CTS-1
157-160	CROSSOVER SURVEY CONTROL DATA	HC-1 - HC-4
161-166	CROSSOVER PLANS	CPL-1 - CPL-6
167-174	CROSSOVER PROFILES	CPR-1 - CPR-8
175-177	CROSSOVER MISC. DETAILS	CMD-1 - CMD-3
178-179	CROSSOVER MISC. TABLES	CMT-1 - CMT-2
180-191	ESTIMATE OF QUANTITIES BY STRUCTURE	QE-1A - QE-4C
192	GENERAL NOTES	GN-1
193	BIN 1002131, I481SB/RT. 5, PLAN AND ELEVATION	GP1-1
194	BIN 1002131, TYPICAL BRIDGE SECTION AND PROFILE	TS1-1
195-197	BIN 1002131, SOUTH ABUTMENT (SB)	AB1-1 - AB1-3
198-199	BIN 1002131, NORTH ABUTMENT (SB), SHEET PILING LAYOUT	AB1-4 - AB1-5
200-201	BIN 1002131 PIER 1 & PIER 2 SB REMOVAL DETAILS	PR1-1 & PR1-2
202	BIN 1002131, PEDESTAL REPLACEMENT	PR1-3
203	BIN 1002131, BOLSTER DETAILS	PR1-4
204	BIN 1002131, ANCHOR BOLT LAYOUT (SB)	PR1-5
205	BIN 1002132, I481NB/RT. 5, PLAN AND ELEVATION	GP2-1
206-207	BIN 1002132, TYPICAL BRIDGE SECTION AND PROFILE, APPROACH SECTION	TS2-1 & TS2-2
208-213	BIN 1002132, SOUTH ABUTMENT (NB)	AB2-1 - AB2-6
214-219	BIN 1002132, NORTH ABUTMENT (NB)	AB2-7 - AB2-12
220-221	BIN 1002132, PIERS (NB)	PR2-1 & PR2-2
222	BIN 1002132, PEDESTAL REPLACEMENT (NB)	PR2-3
223	BIN 1002132, BOLSTER DETAILS (NB)	PR2-4
224	BIN 1002132, ANCHOR BOLT LAYOUT (NB)	PR2-5
225	BIN 1031711 AND 1031712, I-481/I-81, PLAN AND ELEVATION	GP3-1
226	BIN 1031711 & 1031712, TYPICAL BRIDGE SECTION AND PROFILE	TS3-1
227	BIN 1031711, EAST ABUTMENT (SB) PLAN & ELEVATION	AB3-1
228	BIN 1031711, WEST ABUTMENT (SB) PLAN & ELEVATION	AB3-2
229	BIN 1031712, EAST ABUTMENT (NB) PLAN & ELEVATION	AB3-3
230	BIN 1031712, WEST ABUTMENT (NB) PLAN & ELEVATION	AB3-4
231	BIN 1031711 & 1031712, APPROACH SLABS	AS3-1
232	BIN 1064650, KINNE RD/I-481, PLAN, ELEVATION, AND BRIDGE SECTION	GP4-1
233	BIN 1069131 & 1069132, I-481/QUARRY DRIVEWAY, PLAN AND ELEVATION	GP5-1
234	BIN 1069131 & 1069132, TYPICAL BRIDGE SECTION AND PROFILE AND BRIDGE SECTION	TS5-1
235	BIN 1069131, WEST ABUTMENT (SB) PLAN & ELEVATION	AB5-1
236	BIN 1069131, EAST ABUTMENT (SB) PLAN & ELEVATION	AB5-2
237	BIN 1069132, EAST ABUTMENT (NB) PLAN & ELEVATION	AB5-3
238-239	BIN 1069141 & 1069142, I-481/NYS + W RAILROAD, GENERAL PLAN AND ELEVATION	GP6-1 - GP6-2
240-241	BIN 1069141 & 1069142, TYPICAL BRIDGE SECTION AND PROFILES	TS6-1 & TS6-2
242	BIN 1069141, WEST ABUTMENT (SB) PLAN & ELEVATION	AB6-1
243	BIN 1069141, EAST ABUTMENT (SB) PLAN & ELEVATION	AB6-2
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INDEX (CONTINUED)

SHEET NO.	DESCRIPTION	DRAWING NO.
246	BIN 1072530, RAMP TO I-481/I-481, PLAN, ELEVATION AND BRIDGE SECTION	GP7-1
247-248	BIN 1072530, EAST ABUTMENT	AB7-1 - AB7-2
249	BIN 1072571 & BIN 1072572, I-481/ROUTE 298 PLAN AND ELEVATION AND BRIDGE SECTION	GP8-1
250	BIN 1072571 & BIN 1072572, TYPICAL BRIDGE SECTION AND PROFILE	TS8-1
251	BIN 1072571, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB8-1
252	BIN 1072571, NORTH ABUTMENT (SB) PLAN & ELEVATION	AB8-2
253	BIN 1072572, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB8-3
254	BIN 1072581 & BIN 1072582, I-481/TAFT ROAD, PLAN AND ELEVATION	GP9-1
255	BIN 1072581 & 1072582, TYPICAL BRIDGE SECTION AND PROFILE	TS9-1
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258-259	BIN 1072582, SOUTH ABUTMENT AND NORTH ABUTMENT (NB)	AB9-3 & AB9-4
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262-263	BIN 1072781, EAST ABUTMENT (SB) PLAN & ELEVATION	AB10-1 & AB10-2
264	BIN 1072782, WEST ABUTMENT (NB) PLAN & ELEVATION	AB10-3
265	BIN 1072781, APPROACH SLABS	AS10-1
266	BIN 1072791 & BIN 1072792, I-481/ THOMPSON ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP11-1
267	BIN 1072791 & BIN 1072792 TYPICAL BRIDGE SECTIONS AND PROFILE	TS11-1
268	BIN 1072791, EAST & WEST ABUTMENTS (SB)	AB11-1
269	BIN 1072791, APPROACH SLAB (SB)	AS11-1
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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	5	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. ALL BINS		

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DATE

INTERSTATE 481
REHABILITATION PROJECT

INDEX

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AAL2A	3	10/02	IDX-1

CHECKED BY: UNAP LCU BT
ESTIMATED BY: UNAP LCU BT
DATE: 10/02/2010

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432	MISC. TABLE	MT-1

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	6	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGE ON INTERSTATE 481				
TOWN OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. VARIOUS		

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AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 REHABILITATION PROJECT			
INDEX			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AAL2A	REGION 3	DATE 10/02	DRAWING NO. IDX-2

CHECKED BY
DRAFTED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

ESTIMATE OF QUANTITIES BY STRUCTURE																
ITEM #	DESCRIPTION	UNIT	1072781		1072782		1072791		1072792		1093510		1093520		1093540	
			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
203.02 M	UNCLASSIFIED EXCAVATION & DISPOSAL	CM	2				2									
203.03 M	EMBANKMENT IN PLACE	CM														
203.07 M	SELECT GRANULAR FILL	CM														
203.1770 M	CLEAN EXISTING PIPE CULVERT	M														
203.18 M	CLEANING CLOSED DRAINAGE SYSTEMS	M														
203.19 M	CLEAN DRAINAGE STRUCTURES AND MANHOLES	EA														
203.21 M	SELECT STRUCTURE FILL	CM														
15203.51 M	GRADING, CLEANING AND RESHAPING EXISTING DITCHES	M														
206.01 M	STRUCTURE EXCAVATION	CM														
206.02 M	TRENCH AND CULVERT EXCAVATION	CM														
207.10 M	GEOTEXTILE BEDDING	SM														
210.5433 M	REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING CAULKING (BY 12)	LS														
210.9913 M	REMOVAL AND DISPOSAL OF MISC. ASBESTOS CONTAINING MATERIAL BY-12	LS											NEC			
304.15 M	SUBBASE COURSE, OPTIONAL TYPE	CM														
402.128201 M	12.5mm F2 SUPERPAVE HMA, 80 SERIES COMPACTION	MT	3				3				3					
402.128211 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.128201M	QU	1				1				1					
402.258901 M	25mm F9 SUPERPAVE HMA, 80 SERIES COMPACTION	MT									4					
402.258911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.258901M	QU									1					
402.378901 M	37.5mm, F9 SUPERPAVE HMA, 80 SERIES COMPACTION	MT														
402.378911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.378901M	QU														
407.01 M	TACK COAT	L	5				5				9					
490.30 M	MISC. COLD MILLING OF BITUMINUS CONCRETE	SM									25					
502.92 M	SEALING TRANSVERSE JOINTS	M											21		21	
08520.5014 M	SAWCUT, ASPH. CONC/ASPH. OVERLAY- PCC PAVE	M	74				48				17					
552.13 M	TEMPORARY STEEL SHEETING	SM														
555.0105 M	CONCRETE FOR STRUCTURES - CLASS A	CM	1													
555.09 M	CONCRETE FOR STRUCTURES, CLASS HP	CM	3		1				1		1					
18555.81 M	STRUCTURAL CRACK SEALING	LM	6													
556.0201 M	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	KG														
556.0202 M	EPOXY COATED REBAR FOR STRUCTURES	KG	70		72				71		52					
558.01 M	TRANSVERSE SAWCUT GROOVING OF STR SLAB SURF	SM	18				17									
18559.1696 M	PROTECTIVE SEALER STRUCTURAL CONCRETE	SM														
18559.1896 M	PROT SEAL STR. CONC. - NEW BRIDGE DECK OVERLAYS	SM														
564.0501 M	STRUCTURAL STEEL	LS														
565.1522 M	TYPE M.R. EXPANSION BEARING (1001 TO 2000 KN)	EA														
565.1722 M	TYPE M.R. FIXED BEARING (1001 TO 2000 KN)	EA														
15565.4302 M	BRIDGE BEARING RESTORATION	EA	10				10		10							
566.01 M	MODULAR EXPANSION JOINT SYSTEM, ONE-CELL	M														
566.02 M	MODULAR EXPANSION JOINT SYSTEM TWO-CELL	M														
567.31 M	ARM JNT SYS W/ COMPRESSION SEAL - TY A1	M	13		13				14							
567.32 M	ARM JNT SYS W/ COMPRESSION SEAL - TY A2	M														
567.35 M	ARM JNT SYS W/ COMPRESSION SEAL - TY A5	M	13		13				14							
567.36 M	ARM JNT SYS W/ COMPRESSION SEAL - TY A6	M														
18567.46 M	ELASTOMERIC CONCRETE FOR BRIDGE JOINT SYSTEMS	M			26				26							
16567.640001 M	REPLACE COMPRESSION SEAL IN EXISTING BRIDGE JOINTS	M					28				18		10		10	
568.32 M	CEMENT MORTAR PADS	EA														
568.50 M	STEEL BRIDGE RAILING (2 RAIL)	M														
570.090001 M	ENVIRONMENTAL GROUND PROTECTION	LS														
570.090002 M	ENVIRONMENTAL GROUND PROTECTION	LS														
570.090003 M	ENVIRONMENTAL GROUND PROTECTION	LS														

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	186	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

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SIGNATURE	DATE
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SHEET 7 OF 12
ESTIMATE OF QUANTITIES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME 305613.L1A	REGION 3	DATE 10/02	DRAWING NO. QE-3A
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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	187	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

ITEM #	DESCRIPTION	UNIT	1072781		1072782		1072791		1072792		1093510		1093520		1093540	
			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
570.090004 M	ENVIRONMENTAL GROUND PROTECTION	LS	—		—		—		—		—		—		—	
570.100001 M	ENVIRONMENTAL WATERWAY PROTECTION	LS	—		—		—		—		—		—		—	
570.100002 M	ENVIRONMENTAL WATERWAY PROTECTION	LS	—		—		—		—		—		—		—	
16570.32 M	LOCALIZED PAINTING OF BARE STRUCTURAL STEEL	SM	—		—		—		—		—		—		—	
16570.72 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL PLANAR SURFACES	SM	—		—		—		—		—		—		—	
16570.76 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL - IRREGULAR	SM	—		—		—		—		—		—		—	
571.010001 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	—		—		—		—		—		—		—	
571.010002 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	—		—		—		—		—		—		—	
571.010003 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	—		—		—		—		—		—		—	
571.010004 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	—		—		—		—		—		—		—	
572.010001 M	STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED	SW	—		—		—		—		—		—		—	
572.010002 M	STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED	SW	—		—		—		—		—		—		—	
576.2001M	DOWNSPOUT SYSTEM, DUCTILE IRON	M	—		—		—		—		—		—		—	
578.020001 M	OVERLAY CONCRETE - CLASS E	SM	—		—		—		—		—		—		—	
578.020002 M	OVERLAY CONCRETE - CLASS E	SM	—		—		—		—		—		—		—	
578.020003 M	OVERLAY CONCRETE - CLASS E	SM	—		—		—		—		—		—		—	
578.020004 M	OVERLAY CONCRETE - CLASS E	SM	—		—		—		—		—		—		—	
578.020005 M	OVERLAY CONCRETE - CLASS E	SM	—		—		—		—		—		—		—	
578.030001 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	—		—		—		—		—		—		—	
578.030002 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	—		—		—		—		—		—		—	
578.030003 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	—		—		—		—		—		—		—	
578.030004 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	—		—		—		—		—		—		—	
578.030005 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	—		—		—		—		—		—		—	
578.030006 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	18		—		—		—		—		—		—	
578.030007 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	—		—		17		—		—		—		—	
579.02 M	REINFORCING BAR EXPOSURE	SM	26		8		17		8		—		—		—	
580.01 M	REMOVAL OF STRUCTURAL CONCRETE	CM	3		3		—		3		1		—		—	
582.05 M	REMOVE STRUCTURAL CONCRETE WITH CLASS A CONCRETE	CM	1		1		1		—		1		1		2	
582.07 M	REMOVE STRUCTURAL CONCRETE AND REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL	SM	—		—		—		—		—		—		—	
16584.13 M	RAPID SETTING CONCRETE FOR BRIDGE AND APPROACH SLAB REPAIRS	KG	—		—		—		—		—		—		—	
585.01 M	STRUCTURAL LIFTING OPERATIONS - TYPE A	EA	10		—		10		10		—		—		—	
585.02 M	STRUCTURAL LIFTING OPERATIONS - TYPE B	EA	—		—		—		—		—		—		—	
585.03 M	STRUCTURAL LIFTING OPERATIONS TYPE C	EA	—		—		—		—		—		—		—	
586.01 M	DRILL AND GROUT BOLTS, OR REINFORCING BARS	m.m	6000		6000		—		6600		4200		—		—	
17586.18M	DRILLING HOLES IN EXISTING SUBSTRUCTURE	M	—		—		—		—		—		—		—	
16586.200125 M	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA	—		—		—		—		—		—		—	
16586.200216 M	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA	—		—		—		—		—		—		—	
587.01 M	BRIDGE RAILING REMOVAL AND DISPOSAL	M	—		—		—		—		—		—		—	
589.520001 M	REMOVAL OF EXISTING STEEL	EA	—		—		—		—		—		—		—	
589.520002 M	REMOVAL OF EXISTING STEEL	EA	—		—		—		—		—		—		—	
589.520003 M	REMOVAL OF EXISTING STEEL	EA	—		—		—		—		—		—		—	
589.520004 M	REMOVAL OF EXISTING STEEL	EA	—		—		—		—		—		—		—	
589.520005 M	REMOVAL OF EXISTING STEEL	EA	—		—		—		—		—		—		—	
590.01M	VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES	EA	—		—		—		—		—		—		—	
603.6001 M	REINFORCED CONCRETE PIPE CLASS III, 300 mm	M	—		—		—		—		—		—		—	
603.7301M	REINFORCED CONCRETE PIPE END SECTION 300 mm DIAMETER	EA	—		—		—		—		—		—		—	

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SIGNATURE _____ DATE _____

SHEET 8 OF 12

ESTIMATE OF QUANTITIES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613.1A	3	10/02	OE-38

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JOB MANAGER

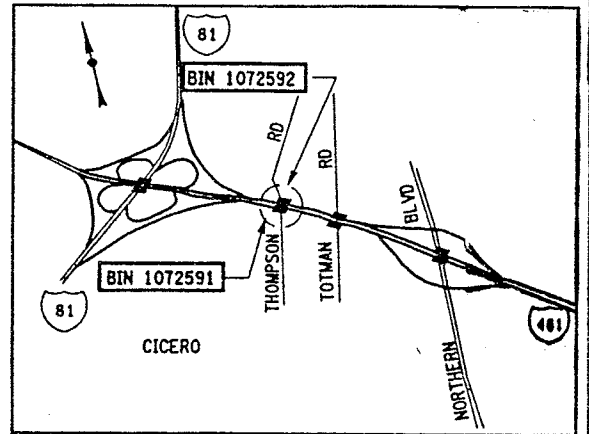
SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	188	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613			B.I.N. VARIOUS	

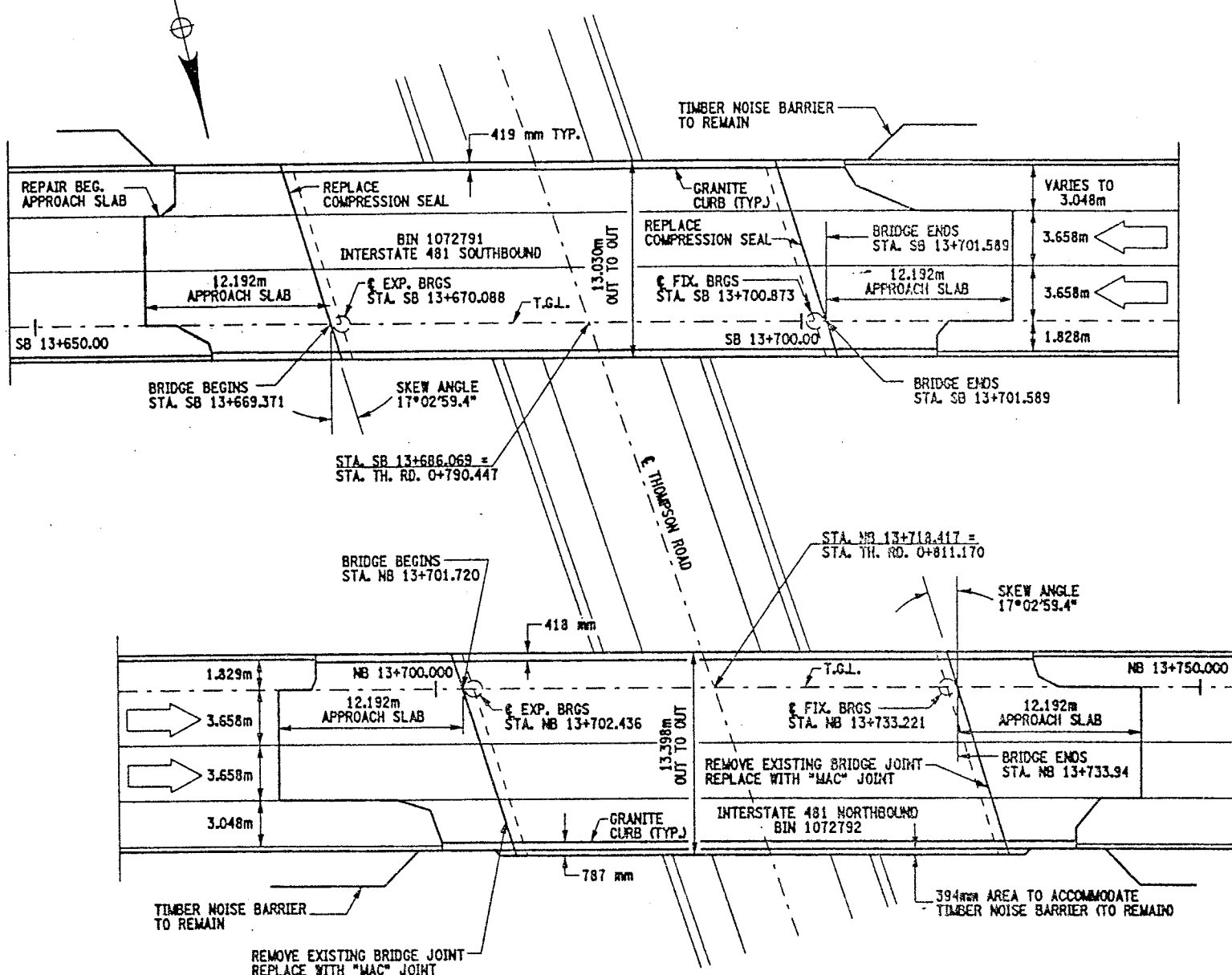
<p style="text-align: center;"><u>AS BUILT REVISIONS</u></p>			
<p>_____ SIGNATURE</p>		<p>_____ DATE</p>	
<p style="text-align: center;">SHEET 9 OF 12</p> <p style="text-align: center;">ESTIMATE OF QUANTITIES</p>			
<div style="display: flex; align-items: center; justify-content: center;">  <div> <p style="text-align: center;">STATE OF NEW YORK</p> <p style="text-align: center;">DEPARTMENT OF TRANSPORTATION</p> </div> </div>			
<p>FILENAME 305613.11A</p>	<p>REGION 3</p>	<p>DATE 10/02</p>	<p>DRAWING NO. QE-3C</p>

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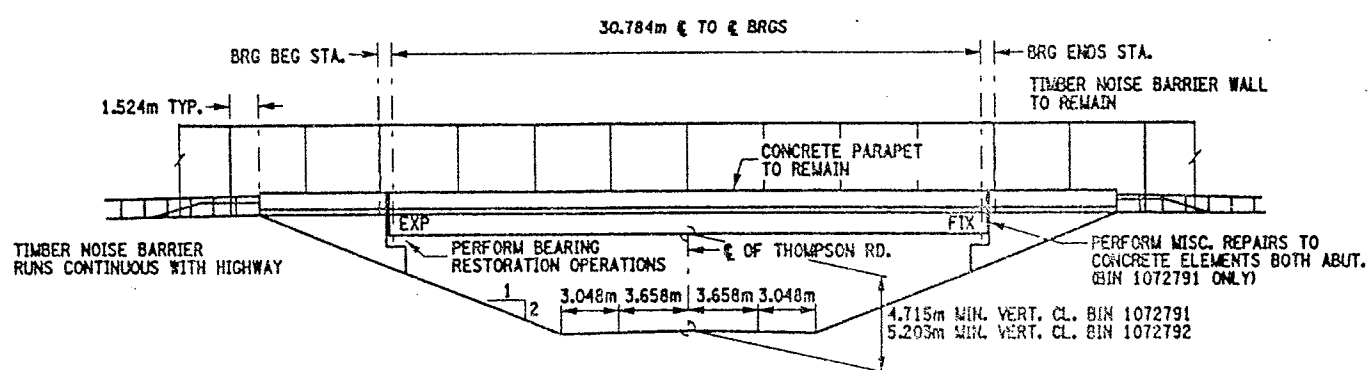
FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	266	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWN OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1072791 & 1072792		



LOCATION MAP
NOT TO SCALE



EXISTING PLAN VIEW
SCALE: 1:200



EXISTING ELEVATION VIEW
SCALE: 1:200

WORK TO BE DONE (NOT NECESSARILY IN THIS ORDER)
BIN 1072791:

1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION.
2. REPLACE COMPRESSION SEALS AT THE BRIDGE JOINTS.
3. REPAIR CONCRETE BEGINNING APPROACH SLAB. (SEE DWG. MS-2)
4. PERFORM BEARING RESTORATION OPERATIONS.
5. PERFORM MISCELLANEOUS REPAIRS TO CONCRETE ELEMENTS, BOTH ABUTMENTS.

BIN 1072792:

1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION.
2. REMOVE EXISTING BRIDGE JOINTS.
3. PLACE NEW BRIDGE JOINTS, ("MAC" JOINTS).
4. PERFORM BEARING RESTORATION OPERATIONS.

NOTE:

"MAC" JOINT - MODIFIED ARMORED JOINT SYSTEM WITH COMPRESSION SEAL.

BIN 1072791 SOUTHBOUND
BIN 1072792 NORTHBOUND

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481
OVER
THOMPSON ROAD
PLAN, ELEVATION AND BRIDGE SECTION

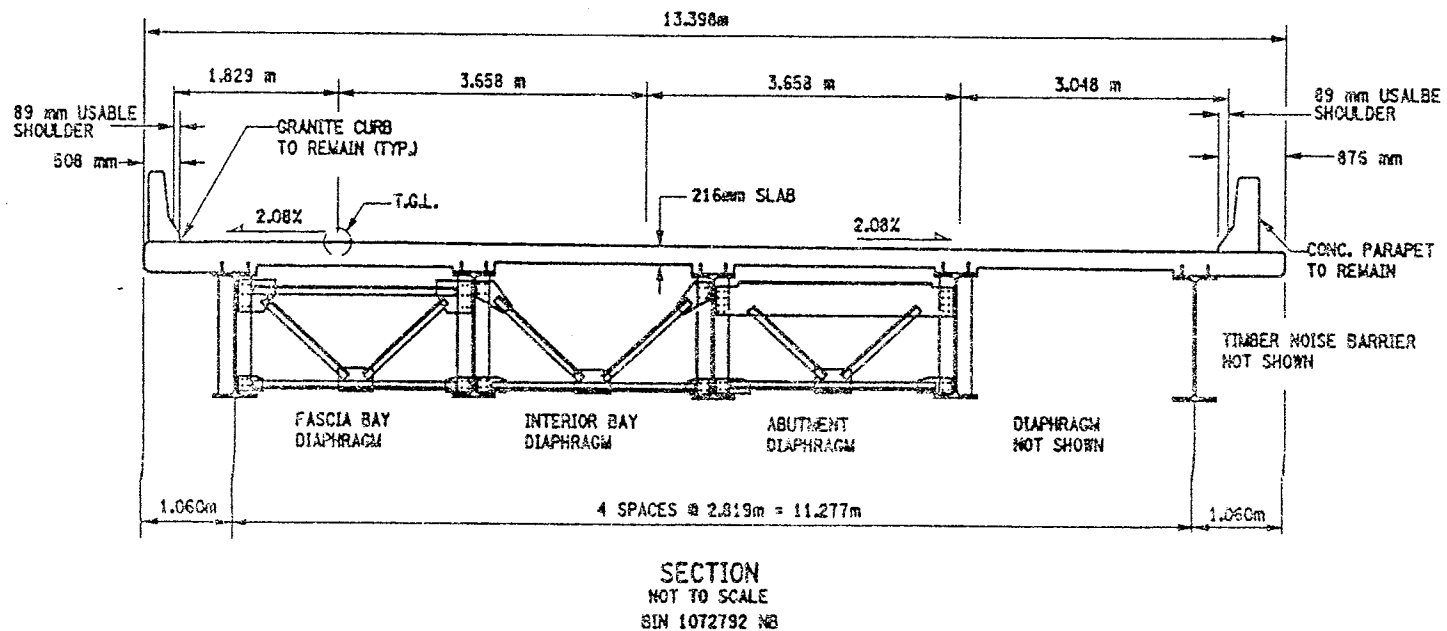
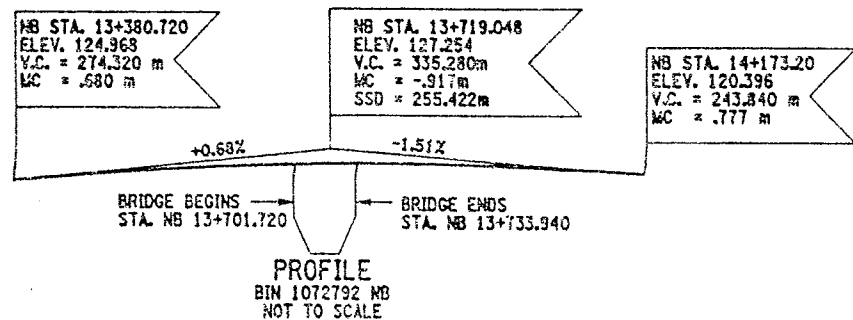
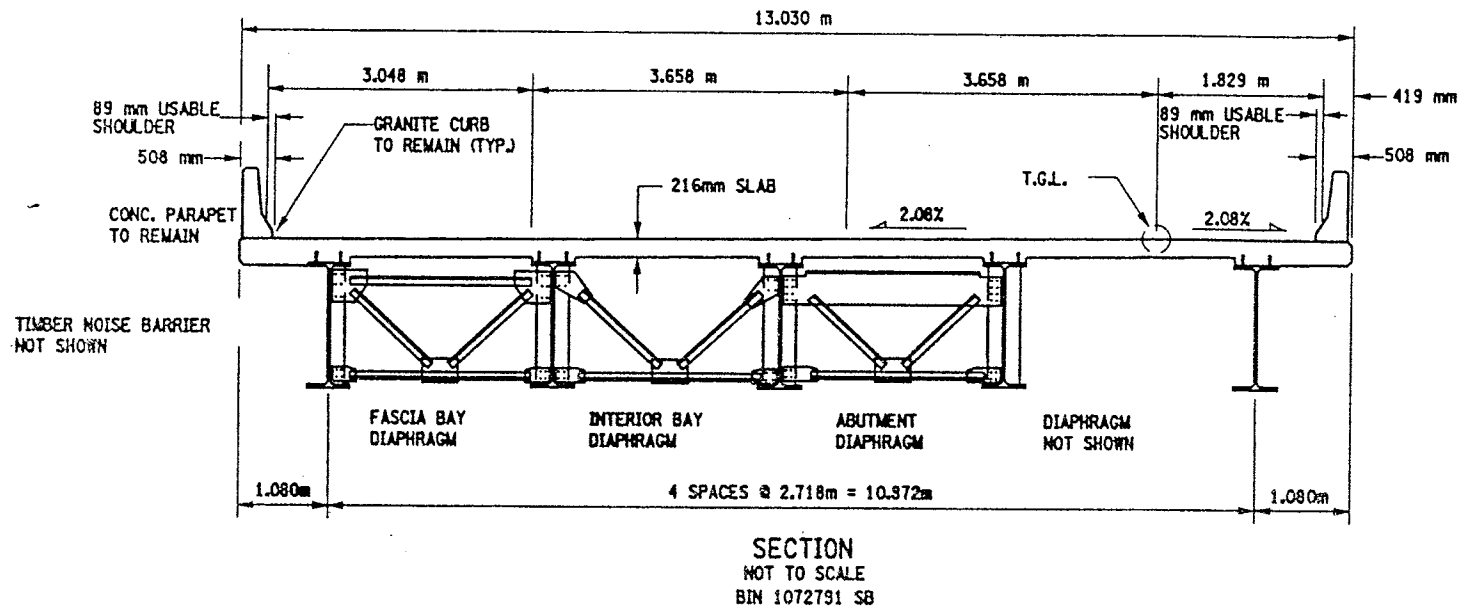
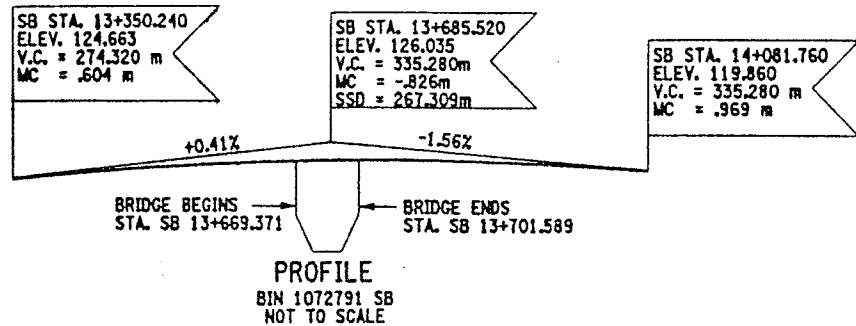


STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AC.G1A	3	10/02	GP11-1

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ESTIMATED BY
CHECKED BY
DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0259214	267	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWN OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1072791 & 1072792		



NOTES:

TIMBER NOISE BARRIER WALL IS ATTACHED TO NORTH FASCIA ON BIN 1072792 NB AND TO THE SOUTH FASCIA ON BIN 1072791 SB.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481
OVER
THOMPSON ROAD
TYPICAL BRIDGE SECTION AND PROFILE



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.
305613AC.G1A 3 10/02 TS11-1

1072792

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0259214	348	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613		B.L.M. 1072791 & 1072792		

BRIDGE BEARING RESTORATION NOTES:

- BRIDGE BEARING RESTORATION ITEM 15565.4302M SHALL INCLUDE ALL DESIGNATED WORK AS PER THE SPECIFICATION.
- STRUCTURAL LIFTING SHALL BE USED WITH ALL EXPANSION BEARING RESTORATION.
- IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER SPAN (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARINGS), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN SPECIFICATIONS SECTION 585-STRUCTURAL LIFTING OPERATIONS.
- BEARING RESTORATION SHALL AS A MINIMUM, AND IN ALL CASES INCLUDE REPLACEMENT OF BRONZE PLATE.
- FIXED BEARING TO BE CLEANED IN PLACE. DO NOT DISASSEMBLE.

JACKING NOTES:

THE METHOD OF LIFTING SHALL BE APPROVED BY THE DEPUTY CHIEF ENGINEER (STRUCTURES), DCES, TWO WEEKS PRIOR TO THE START OF THE WORK.

NO LIFTING WILL BE ALLOWED UNTIL ALL TEMPORARY SUPPORTS ARE SECURED.

WHEN POSSIBLE, THERE WILL BE NO LIVE LOAD DURING LIFTING.

LIFTING SHALL BE CONFINED TO ONE END OF A SPAN AT ANY ONE TIME.

IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER PIER (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARING), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN THE SPECIFICATION SECTION 585-STRUCTURAL LIFTING OPERATIONS.

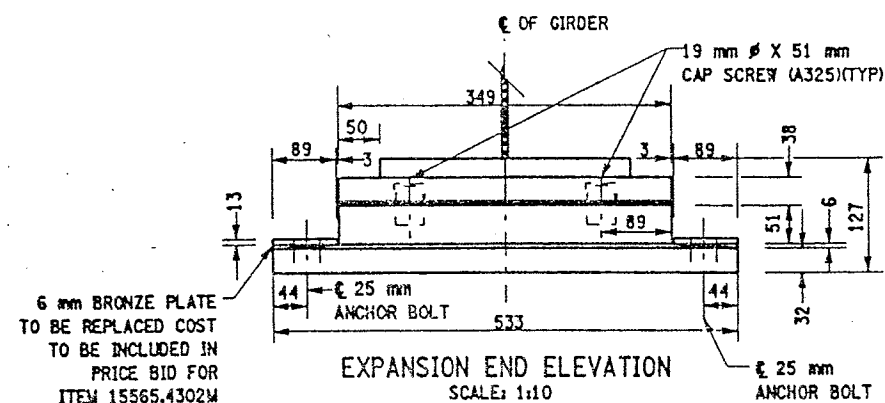
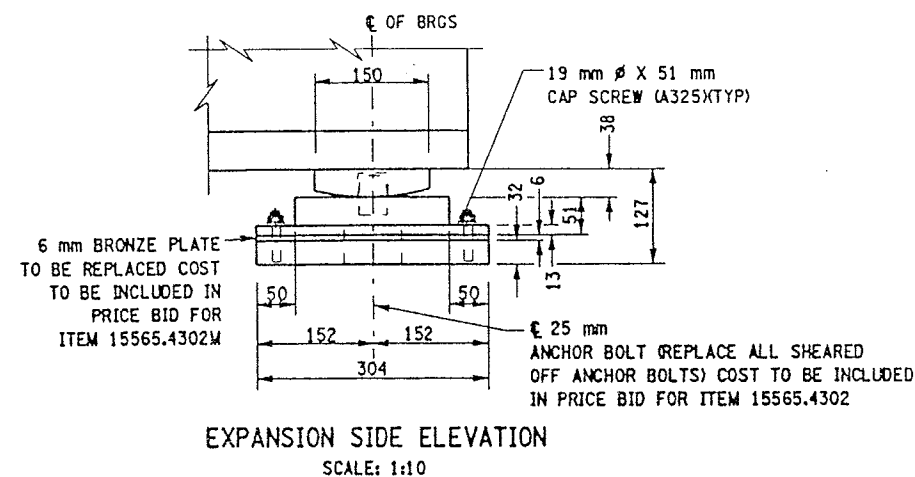
ALL MATERIALS ASTM A588
EXCEPT AS NOTED

LIST OF ITEMS USED:

ITEM 15565.4302 M - BRIDGE BEARING RESTORATION (EA)
ITEM 585.01M - STRUCTURAL LIFTING (TYPE A) (EA)

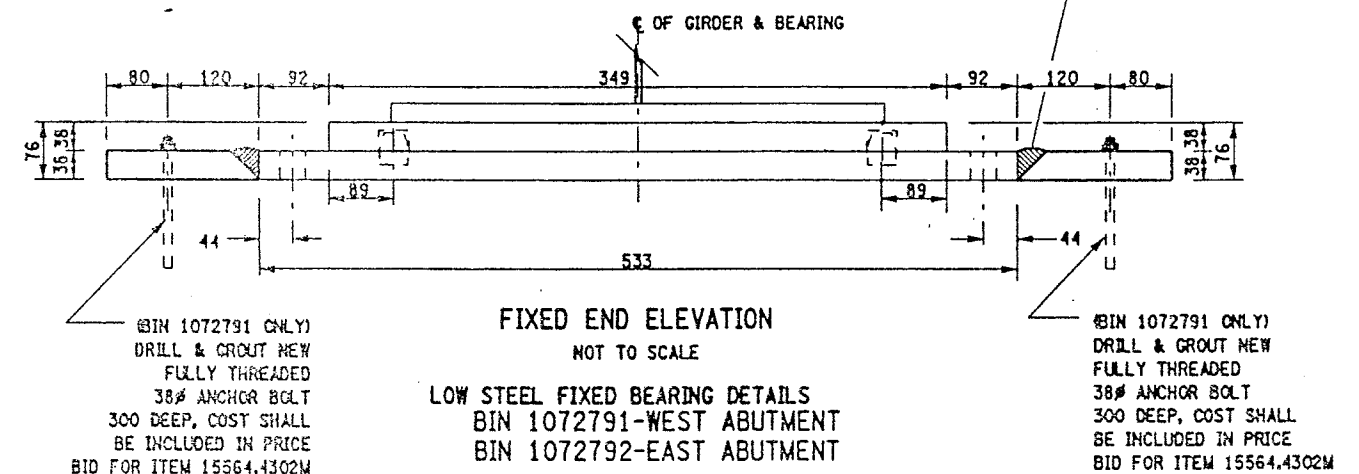
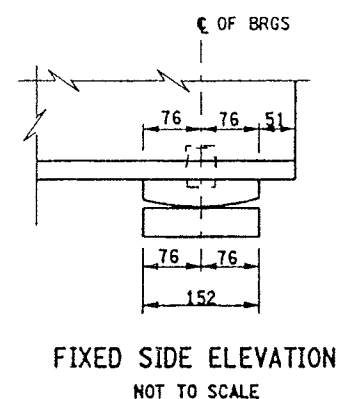
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE		DATE	
INTERSTATE 481 SB & NB OVER THOMPSON ROAD			
BEARING RESTORATION DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613ZZ.M1A	REGION 3	DATE 10/02	DRAWING NO. BR-8



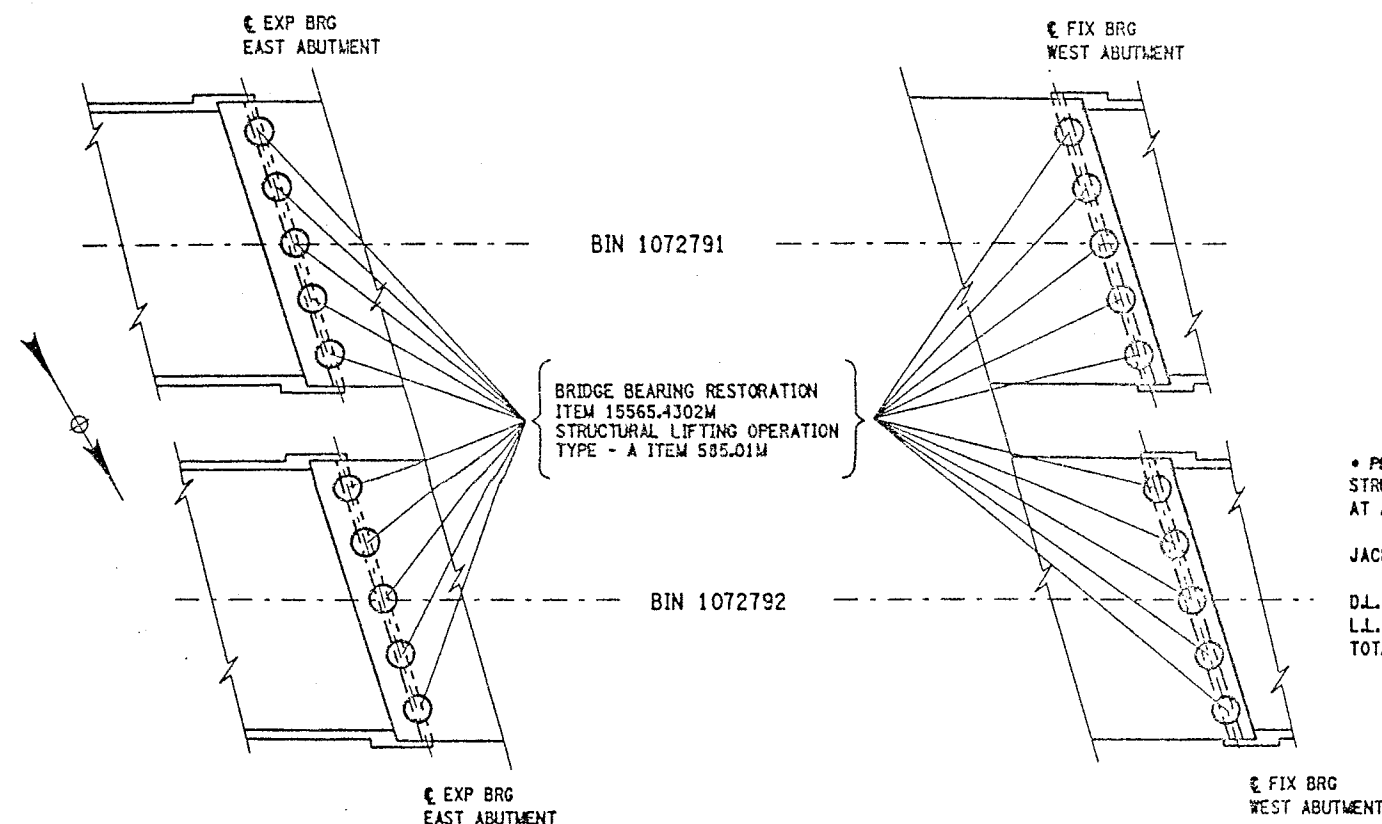
LOW STEEL EXPANSION BEARING DETAILS

BIN 1072791 - EAST ABUTMENT
BIN 1072792 - EAST ABUTMENT



LOW STEEL FIXED BEARING DETAILS

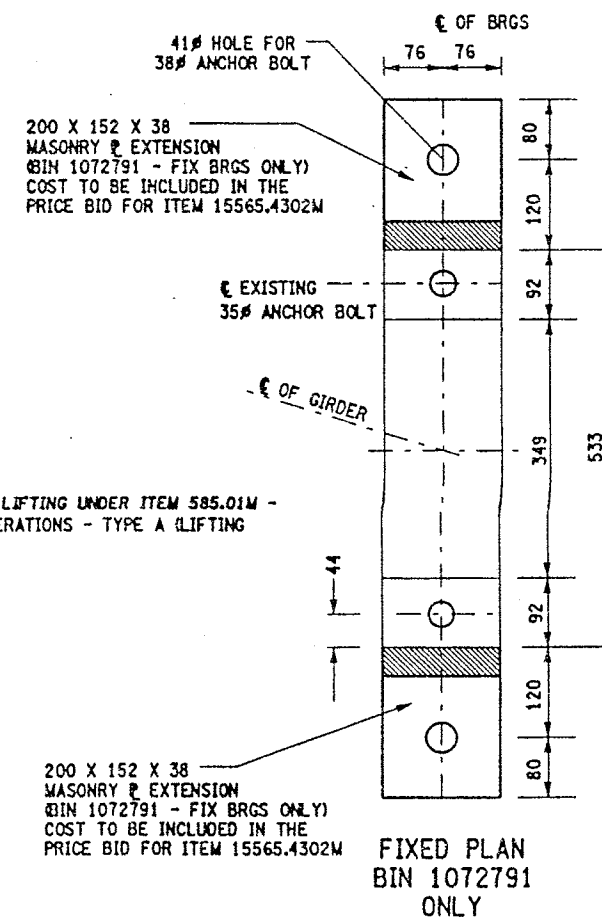
BIN 1072791-WEST ABUTMENT
BIN 1072792-EAST ABUTMENT



• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.01M -
STRUCTURAL LIFTING OPERATIONS - TYPE A (LIFTING
AT AN ABUTMENT).

JACKING LOADS:

D.L. = 50 MT
L.L. = 50 MT
TOTAL = 1000 MT



FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	362	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. ALL BINS	

BRIDGE JOINT TABLE

B.I.N. NUMBER	JOINT LOCATION	JOINT SKEW	SPAN(S) LENGTH FOR JOINT (METERS)	JOINT BEND LOCAT'N		EXISTING JOINT TYPE	PROPOSED JOINT TYPE	CURB TO CURB DISTANCE (METERS) (SEE NOTES)	FASCIA & MEDIAN LENGTH (METERS) LT/RT	TOTAL LENGTH (METERS)	JOINT ITEM NUMBER(S)	DRAWING NUMBER		
				RT	LT							SECT VIEW	PLAN VIEW	FASCIA DETAIL
1072530	EAST ABUT.	0°-00'-00"	33.528	N	N	ACJ	MAC-5	15.850	.457/.457	16.764	567.35M	JD-30	JD-29	JD-30
	WEST ABUT.	0°-00'-00"	37.795	N	N	ACJ	MAC-5	15.850	.457/.457	16.764	567.35M	JD-30	JD-29	JD-30
1072571	SOUTH ABUT.	20°-29'-45.2"	44.196	N	N	ACJ	MAC-6	14.481	.488/.488	15.457	567.36M	JD-32	JD-31	JD-32
	NORTH ABUT.	20°-29'-45.2"	—	N	N	ACJ	MAC-1	15.456	.488/.488	16.428	567.31M	JD-32	JD-31	JD-32
1072572	SOUTH ABUT.	21°-09'-2.1"	44.196	N	N	ACJ	MAC-6	12.746	.490/.490	13.726	567.36M	JD-34	JD-33	JD-34
	NORTH ABUT.	21°-09'-2.1"	—	N	N	ACJ	MAC-1	12.746	.490/.490	13.726	567.31M	JD-34	JD-33	JD-34
1072581	SOUTH ABUT.	3°59'-27.5"	37.033	N	N	ACJ	MAC-5	11.917	.458/.458	12.833	567.35M	JD-36	JD-35	JD-36
	NORTH ABUT.	3°-59'-27.5"	—	N	N	ACJ	MAC-1	11.917	.458/.458	12.833	567.31M	JD-36	JD-35	JD-36
1072582	SOUTH ABUT.	3°-51'-57.9"	37.033	N	N	ACJ	MAC-5	11.915	.458/.458	12.831	567.35M	JD-38	JD-37	JD-38
	NORTH ABUT.	3°-51'-57.9"	—	N	N	ACJ	MAC-1	11.915	.458/.458	12.831	567.31M	JD-38	JD-37	JD-38
1072781	EAST ABUT.	16°-26'-24"	—	N	N	ACJ	MAC-1	12.500	.530/.530	13.560	567.31M	JD-40	JD-39	JD-40
	WEST ABUT.	16°-26'-24"	33.635	N	N	ACJ	MAC-5	12.500	.530/.530	13.560	567.35M	JD-40	JD-39	JD-40
1072782	EAST ABUT.	16°-26'-24"	—	N	N	ACJ	MAC-1	13.183	.530/.530	14.243	567.31M	JD-42	JD-41	JD-42
	WEST ABUT.	16°-26'-24"	31.394	N	N	ACJ	MAC-5	12.589	.530/.530	13.649	567.35M	JD-42	JD-41	JD-42
1072791	EAST ABUT.	17°-02'-59.4"	30.785	N	N	ACJ	RCS	12.566	.531/.531	13.628	16567.64M	JD-47	JD-43	JD-47
	WEST ABUT.	17°-02'-59.4"	—	N	N	ACJ	RCS	12.566	.531/.531	13.628	16567.64M	JD-47	JD-43	JD-47
1072792	EAST ABUT.	17°-02'-59.4"	30.785	N	N	ACJ	MAC-5	12.566	.530/.530	14.015	567.35M	JD-44	JD-43	JD-44
	WEST ABUT.	17°-02'-59.4"	—	N	N	ACJ	MAC-1	12.566	.530/.530	14.015	567.31M	JD-44	JD-43	JD-44
1093510	WEST ABUT.	44°-07'-00"	—	N	N	ACJ/ADA	RCS	16.560	.637/.637	17.834	16567.64M	JD-46	JD-45	JD-46
	EAST ABUT.	40°-26'-00"	37.522	N	N	ADA	RADA	15.620	—	15.620	—	JD-46	JD-45	—

LEGEND

EXISTING JOINT TYPE:

ACJ = ARMORED COMPRESSION JOINT SYSTEM
MOD = MODULAR JOINT SYSTEM
MAC = MODIFIED ARMORED COMPRESSION
SYSTEM (NO HORIZ. ARMORING ANGLE)
ADA = ARMORED DECK ANGLE
SS = STRIP SEAL JOINT
OPEN = OPEN JOINT

PROPOSED JOINT TYPE:

MAC-1 = MOD. ARM./COMP. SEAL JT. SYS. (A-1)
MAC-2 = MOD. ARM./COMP. SEAL JT. SYS. (A-2)
MAC-5 = MOD. ARM./COMP. SEAL JT. SYS. (A-5)
MAC-6 = MOD. ARM./COMP. SEAL JT. SYS. (A-6)
RCS = REPLACE EXISTING COMPRESSION SEAL
RADA = REMOVE ARMOR DECK ANGLE
MOD-1 = MODULAR JT. SYS. (ONE-CELL)
MOD-2 = MODULAR JT. SYS. (TWO-CELL)

JOINT BEND LOCATION:

N = NO BENDS
CRB = CURB LINE
PAV'T = PAVEMENT

GENERAL NOTES:

- ALL MEASUREMENTS SHALL BE FIELD VERIFIED.
- CURB TO CURB LENGTHS ARE MEASURED ALONG C OF JOINT.
- MULTIPLE DIMENSIONS ARE SHOWN LOOKING UP-STATION, LEFT TO RIGHT.
- ALL DIMENSIONS ARE SHOWN IN METERS.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

INFORMATIONAL NOTES:

BIN 1072530 - NO JOINT AT PIER.

BIN 1072791 - REPLACE COMPRESSION SEALS
BEG. ABUT. (EAST), TYPE A-5
END ABUT. (WEST), TYPE A-1

FOR JOINT DETAILS REFER TO THE FOLLOWING DRAWINGS:

DWG. NO. JD-1 - MODIFIED ARMORED COMPRESSION SEAL JOINT SYSTEM.
DWG. NO. JD-24 - ONE-CELL MODULAR JOINT SYSTEM.
DWG. NO. JD-25 - TWO-CELL MODULAR JOINT SYSTEM.

LIST OF BRIDGE JOINT ITEMS USED:

ITEM 566.01M - MODULAR EXP. JOINT SYSTEM ONE-CELL (M)
ITEM 566.02M - MODULAR EXP. JOINT SYSTEM TWO-CELL (M)
ITEM 567.31M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (M)
ITEM 567.32M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (M)
ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (M)
ITEM 567.36M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (M)
ITEM 16567.640001M - REPLACE COMPRESSION SEAL FOR EXISTING BRIDGE JOINTS (M)

SIGNATURE DATE

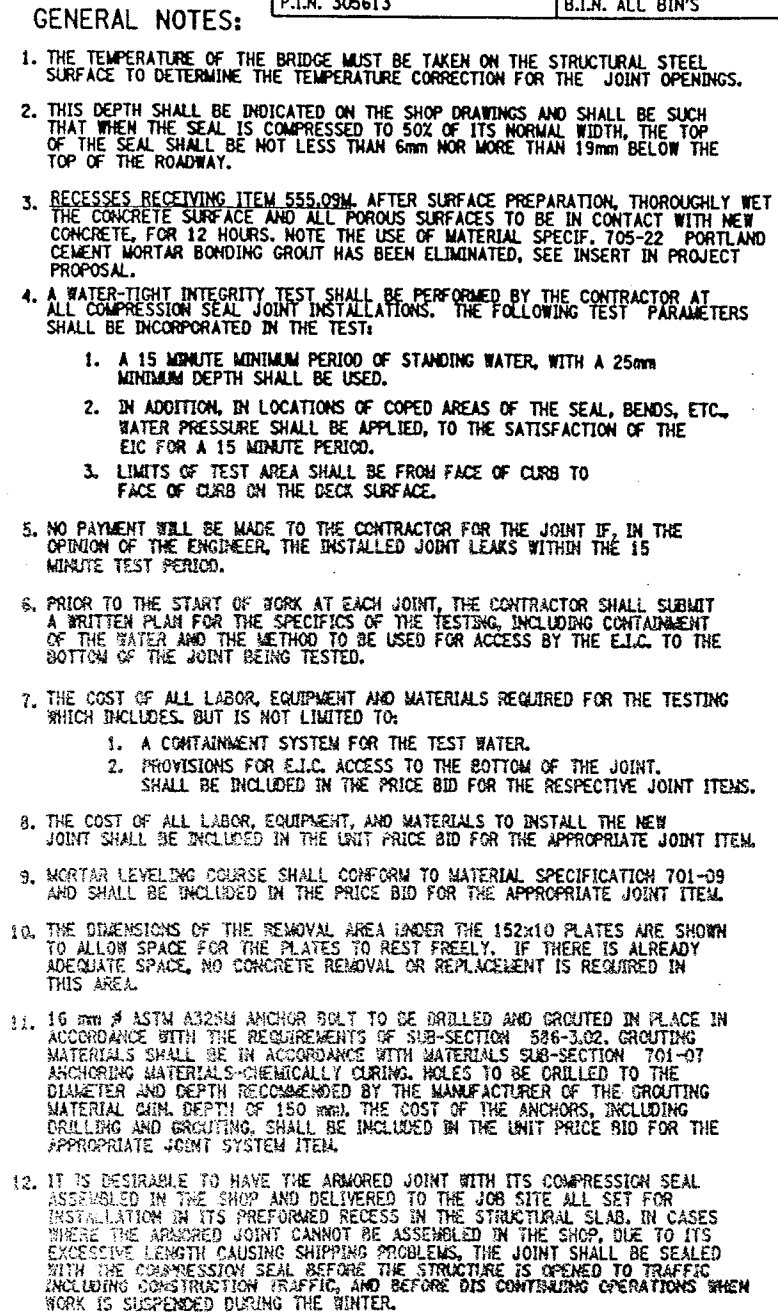
INTERSTATE 481 VARIOUS BRIDGES

BRIDGE JOINT TABLE



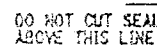
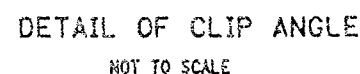
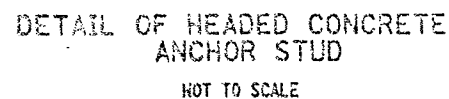
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AJ.JA1	3	10/02	JT-2



FOR INSTALLATION LOCATIONS SEE JOINT TABLE

NOT TO SCALE



THE SEAL SHALL BE SUPPLIED IN ONE PIECE FOR THE FULL LENGTH OF JOINT. SPLICES WILL NOT BE PERMITTED WHEN THE LENGTH OF THE PIECE IS LESS THAN 15m. FOR LENGTHS UP TO 30m, ONE SHOP SPLICE WILL BE PERMITTED. FOR LENGTHS IN EXCESS OF 30m, SHOP SPLICES MAY BE PLACED AT APPROXIMATELY 15m INTERVALS.

DETAIL FOR CUTTING SEAL
NOT TO SCALE

LIST OF ITEMS USED:

ITEM	555.09M	-	STRUCT. CONCRETE, CLASS "HP" (CM)			
ITEM	555.0202M	-	EPOXY COATED BAR REINF. FOR STRUCT. (C)			
ITEM	567.31M	-	MOD. ARMORED JOINT SYSTEM %/ COMP. SEAL	TYPE	A1	Unit
ITEM	567.32M	-	MOD. ARMORED JOINT SYSTEM %/ COMP. SEAL	TYPE	A2	Unit
ITEM	567.33M	-	MOD. ARMORED JOINT SYSTEM %/ COMP. SEAL	TYPE	A5	Unit
ITEM	567.35M	-	MOD. ARMORED JOINT SYSTEM %/ COMP. SEAL	TYPE	A6	Unit
ITEM	158567.46M	-	ELASTOMERIC CONC. FOR BRIDGE JT. SYSTEMS		00	
ITEM	586.01M	-	DRILL & GROUT REINF. BARS (mm)			

Maximum Skew Limits: Fixed End - No Limit
Exp. End - 45° A2 thru A6

EPOXY POLYSULFIDE GROUT NOTE:

CONTRACTOR MAY WITH THE APPROVAL OF THE ENGINEER USE MATERIAL SPECIFICATION T21-03 EPOXY POLYSULFIDE GROUT, AT THE RECESSES, DETAIL TO THE 12 HOUR CONTINUOUS PRETIGHTENING REQUIREMENTS PROPOSED FOR DISPOSAL. CONTRACTOR SHALL FOLLOW THE PROPER CONSTRUCTION PRACTICES ARE FOLLOWED WHEN USING THIS GROUT. THE USE OF EPOXY POLYSULFIDE GROUT SHALL BE AT NO ADDITIONAL COST TO THE STATE.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
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INTERSTATE 481

COMPRESSION SEAL JOINT DETAILS

Advertisement

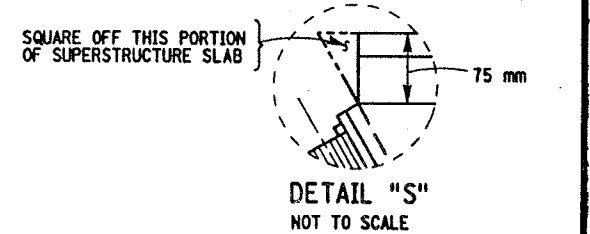
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWN
305613AJ-JA1	3	10/02	10-

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DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	407	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1072792	

- NOTES:**
- REFER TO DWG. NO. JD-1 FOR PROPOSED JOINT DETAILS AND ALL NOTES SHALL APPLY.
 - FOR SECTION VIEWS SEE DWG. NO. JD-44.
 - REFER TO DWG. NO. JT-2 FOR PROPOSED BRIDGE JOINT INSTALLATION LOCATIONS.
 - BOTH STRUCTURES HAVE A 17°-02'-59.4" SKEW ANGLE.
 - BIN 1072792 NB - HAS A TIMBER NOISE BARRIER ATTACHED TO THE NORTH FASCIA (LEFT SIDE), THIS TIMBER NOISE BARRIER TO REMAIN. IT MAY BE NECESSARY TO TEMPORARILY REMOVE THE SUPPORT BRACKETS TO FACILITATE INSTALLATION OF THE PROPOSED BRIDGE JOINT.
 - ANY ADDITIONAL SUPPORT TO THE TIMBER NOISE BARRIER DEEMED NECESSARY BY THE ENGINEER, DURING THIS REMOVAL OF THE SUPPORT BRACKETS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 580.01M.
 - BIN 1072792 - 481 NB/THOMPSON RD. BRIDGE JOINT REPAIRS/REPLACEMENT SHALL BE CONDUCTED UTILIZING NIGHT-TIME CONSTRUCTION TECHNIQUES FOR THIS BRIDGE ONLY. WHEN EVER THE JOINT BLOCK-OUT CONCRETE IS REMOVED OR CURING, STEEL ROAD PLATES SHALL BE USED. REFER TO DWG. NO. AA-RP1 FOR ROAD PLATE DETAILS.
 - SEE DRAWING NO. JD-47 FOR BIN 1072791 DETAILS. BIN 1072792 SHOWN, BIN 1072791 SIMILAR



SPECIAL NOTE:

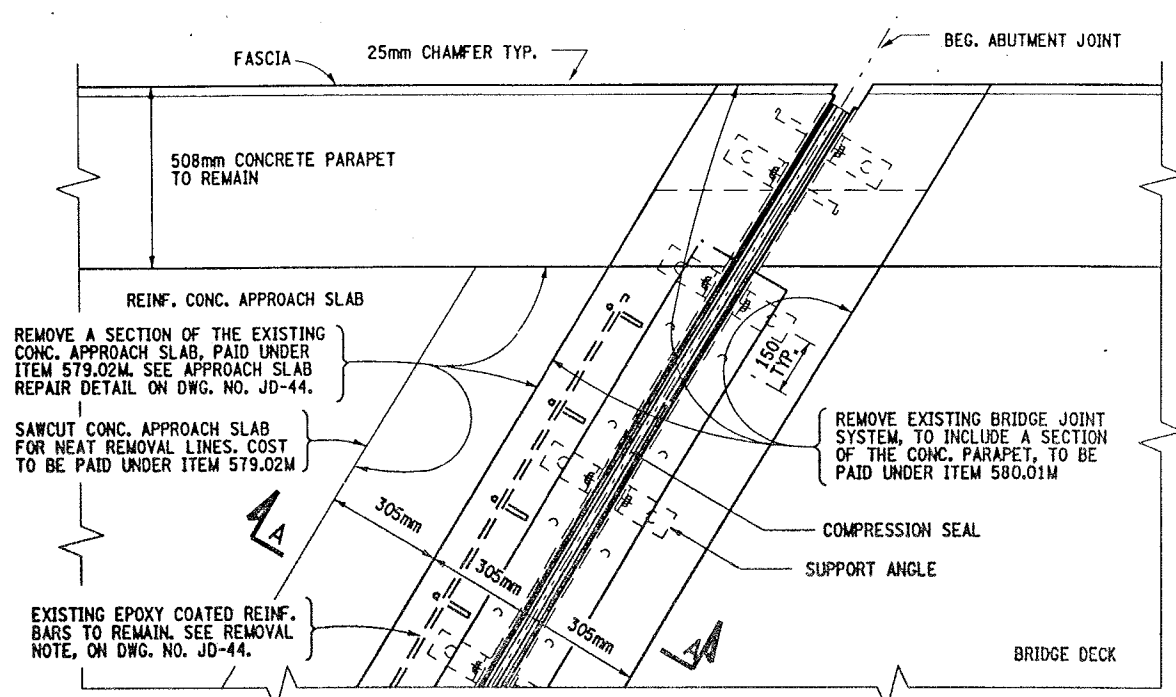
BIN 1072792 - INSTALL ITEM 567.35M AT BEG. ABUT. JOINT
INSTALL ITEM 567.31M AT END ABUT. JOINT.

- ITEMS USED:**
- ITEM 556.0202M - EPOXY-COATED BAR REINF. FOR STRUCT. (CM)
 - ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)
 - ITEM 567.31M - MOD. ARMORED JOINT SYSTEM W/COMP. SEAL TYPE A1 (M)
 - ITEM 567.35M - MOD. ARMORED JOINT SYSTEM W/COMP. SEAL TYPE A5 (M)
 - ITEM 18567.46M - ELASTOMERIC CONCRETE FOR BRIDGE JOINT SYSTEMS (M)
 - ITEM 579.02M - REINFORCED BAR EXPOSURE (SM)
 - ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

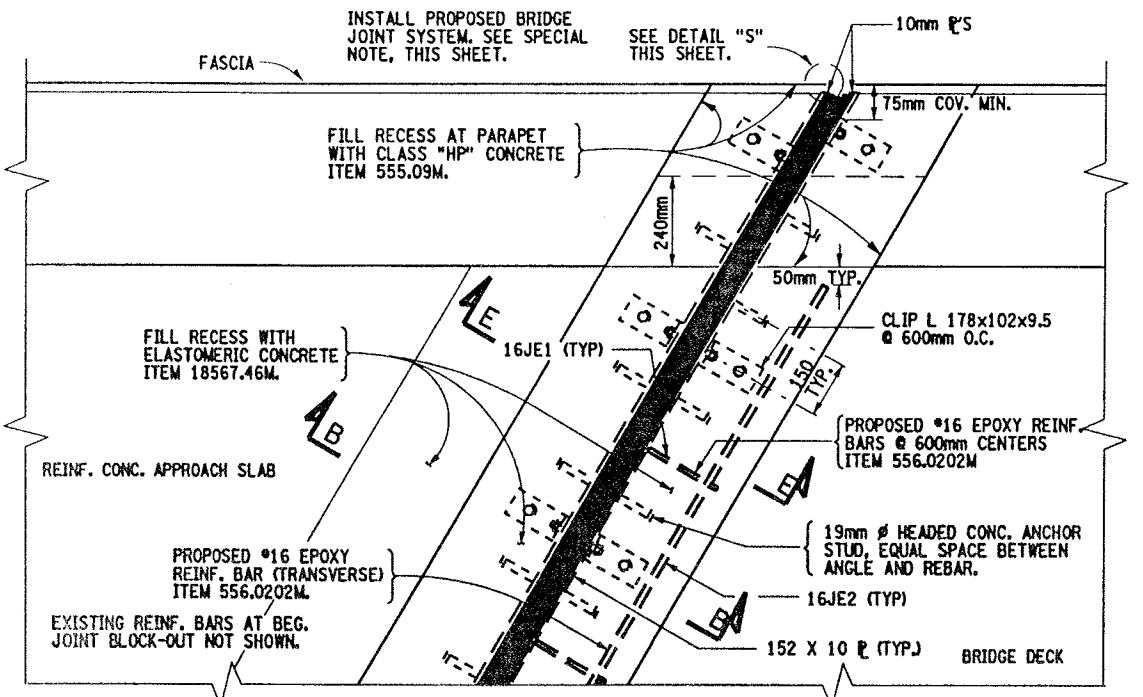
AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 NB OVER THOMPSON ROAD BRIDGE JOINT DETAILS	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AJ-JA1	REGION 3
DATE 10/02	DRAWING NO. JD-43



EXISTING ABUTMENT JOINT PLAN VIEW

BIN 1072792 - BEG. ABUT. (EAST ABUT.) SHOWN
END ABUT. (WEST ABUT.) SIMILAR



PROPOSED ABUTMENT JOINT PLAN VIEW

BIN 1072792 - BEG. ABUT. (EAST ABUT.) SHOWN
END ABUT. (WEST ABUT.) SIMILAR

FED ROAD REC. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	408	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1072792	

REMOVAL NOTE:

EXISTING EPOXY COATED REINF. BARS ENCOUNTERED AT THE JOINT BLOCK-OUTS, SHALL REMAIN. CARE SHALL BE TAKEN DURING REMOVAL OPERATIONS, NOT TO DAMAGE THE REINFORCEMENT BARS.

PRIOR TO PLACEMENT OF NEW CONCRETE THE EXISTING EPOXY BARS SHALL BE CLEANED AND ANY FIELD REPAIRS DEEMED NECESSARY BY THE ENGINEER, BE MADE AS PER SECTION 556-3.02(C) OF STANDARD SPECIFICATIONS. TO BE INCLUDED IN PRICE BID FOR ITEM 580.01M.

NOTES:

1. ACTUAL BRIDGE JOINT BLOCK-OUT DIMENSIONS MAY VARY. REMOVAL LIMITS SHALL BE TO EXISTING BLOCK-OUT LOCATIONS, ABOVE.
2. EXISTING WATERSTOPS SHALL REMAIN.
3. FOR CALCULATION OF "A" DIMENSION REFER TO DWG. NO. JD-1.
4. REFER TO DWG. NO. JD-43 FOR PROPOSED PARTIAL PLAN VIEWS.
5. ALL WELDS SHALL BE GROUND SMOOTH TO THE SATISFACTION OF THE ENGINEER, ON SEAL CONTACT SIDE OF EDGE BEAM.
6. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS NOMINAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6 mm NOR MORE THAN 19 mm BELOW THE TOP OF ROADWAY.
7. RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACES AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE FOR 12 HOURS. NOTE, THE USE OF MATERIAL SPECIF. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, (PROJECT PROPOSAL).
8. SAWCUT CONCRETE APPROACH SLAB TO PRODUCE HEAT REMOVAL LINES, COST BE TO INCLUDED IN PRICE BID FOR ITEM 579.02M.
9. THE CONCRETE REMOVAL AT THE APPROACH SLAB SHALL CONFORM TO STANDARD SPECIF. 579-3.02, TO BE PAID UNDER ITEM 579.02M. (AT APPROACH SLABS ONLY)

ITEMS USED:

ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)
ITEM 556.0202M - EPOXY-COATED BAR REINF. FOR STRUCT. (Kg)
ITEM 18567.46M - ELASTOMERIC CONCRETE FOR BRIDGE JOINT SYSTEMS (M)
ITEM 579.02M - REINFORCED BAR EXPOSURE (SM)
ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE _____ DATE _____

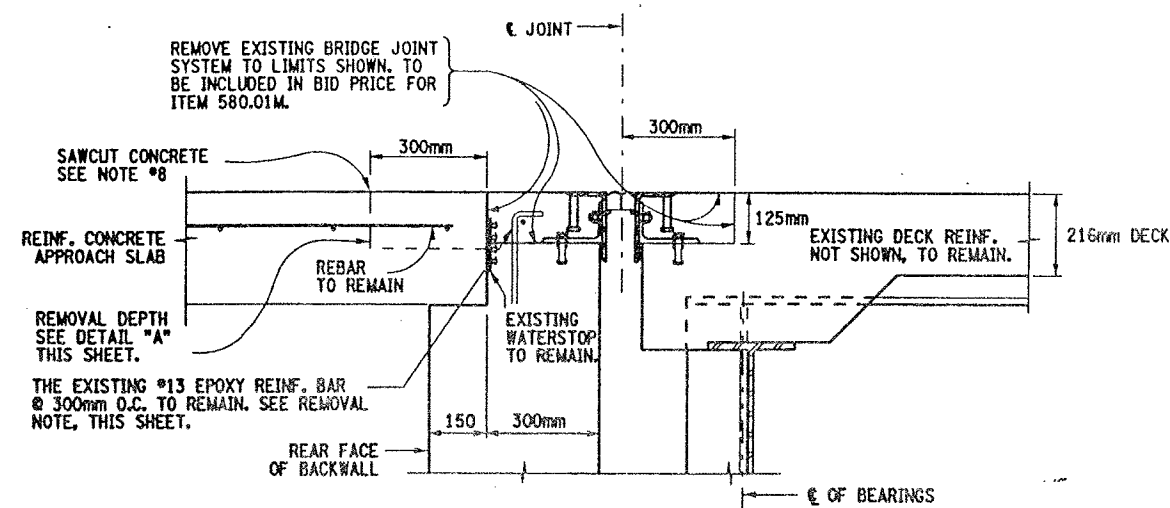
INTERSTATE 481 NB

OVER
THOMPSON ROAD

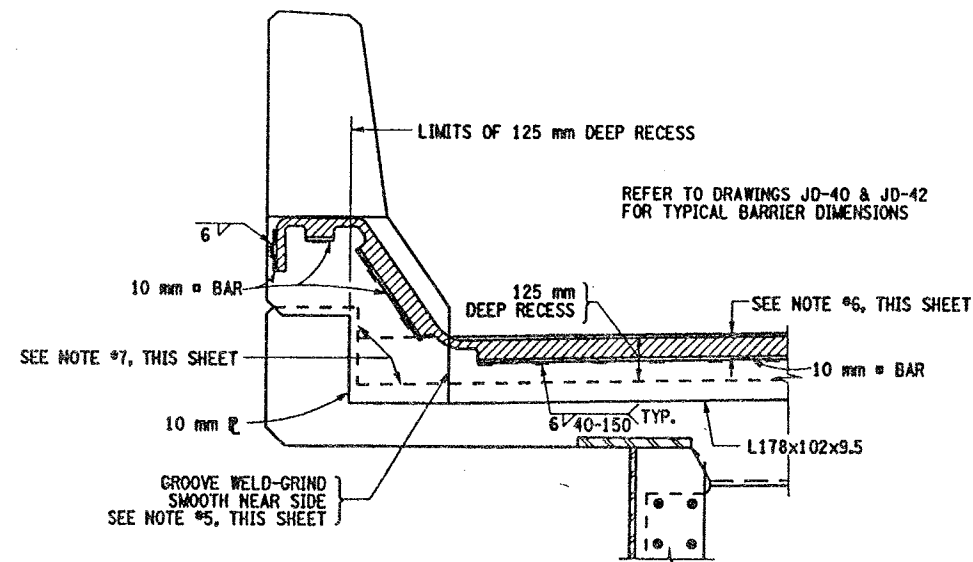
BRIDGE JOINT DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

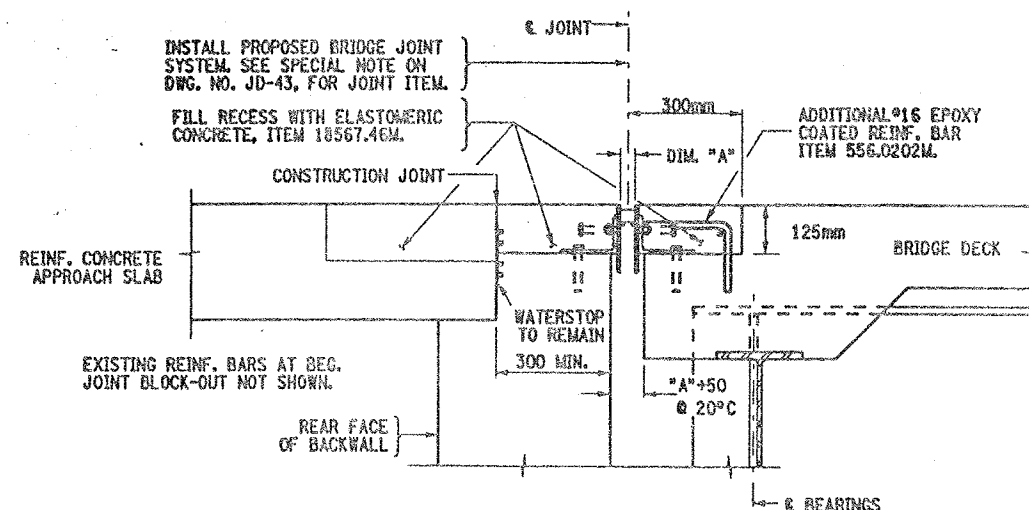
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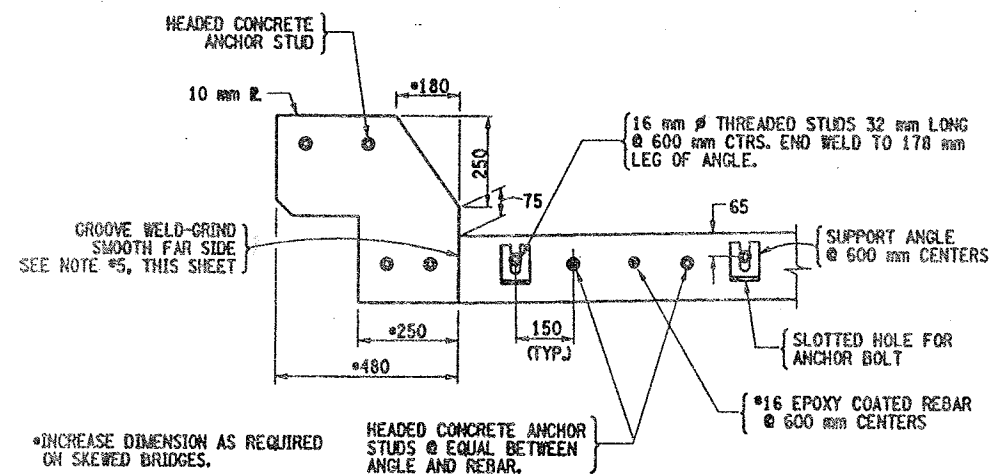
SECTION A-A
EXISTING ABUTMENT JOINT
NOT TO SCALE



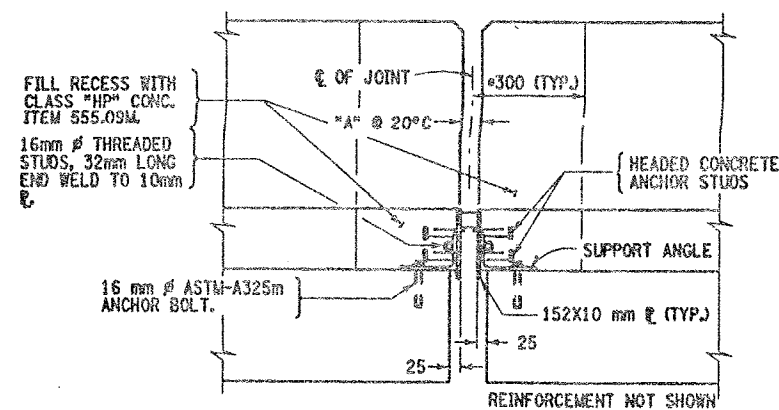
PROPOSED ABUTMENT JOINT
SECTION C-C (CONCRETE TRAFFIC BARRIER)
(REFER TO DWG. NO. JD-40 FOR OPPOSITE FASCIA DETAIL)
NOT TO SCALE



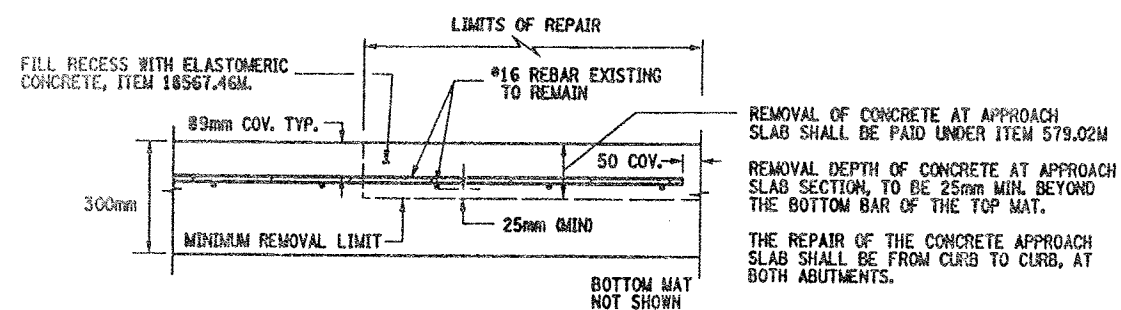
PROPOSED ABUTMENT JOINT
SECTION B-B
NOT TO SCALE



PROPOSED ABUTMENT JOINT
SECTION D-D (CONCRETE TRAFFIC BARRIER)
(ONLY THE STEEL SHOWN)



PROPOSED PIER JOINT
SECTION E-E
NOT TO SCALE



APPROACH SLAB REPAIR
DETAIL "A"
NOT TO SCALE

REMOVAL OF CONCRETE AT APPROACH
SLAB SHALL BE PAID UNDER ITEM 579.02M

REMOVAL DEPTH OF CONCRETE AT APPROACH
SLAB SECTION, TO BE 25mm MIN. BEYOND
THE BOTTOM BAR OF THE TOP MAT.

THE REPAIR OF THE CONCRETE APPROACH
SLAB SHALL BE FROM CURB TO CURB, AT
BOTH ABUTMENTS.

Asbestos Sampling Survey

Location:

BIN 1072792

Interstate Route I-481 North Bound
over Thompson Road

Prepared for:

New York State
Department of Transportation

PIN 3056.13.111

LaBella Project No. 201001

August 2001

Table of Contents

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II.	Site Description	1
III.	Inspection Procedures	1
IV.	Results	2
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Figures and Table

I. Project Summary

In accordance with conditions of Term Agreement D012606, LaBella Associates, P.C. conducted an asbestos sampling survey of the Interstate Route I-481 north bound bridge over Thompson Road. Based on laboratory analyses of bulk samples collected, no asbestos-containing materials were identified.

II. Site Description

The Site is located in Onondaga County, New York. For the purpose of this report, the Site consists of the Interstate Route I-481 north bound bridge over Thompson Road. (See attached FIGURE 1 - Site Location Map).

III. Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 3 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints, which might affect the removal of the ACM, were identified and reported.
- C. Bulk samples of suspected ACM were collected during the site inspection of the subject structure. Samples were taken from each homogeneous area that may contain ACM.
- D. Samples were submitted for analysis. Preliminary PLM analyses of NOB materials were performed by LaBella Laboratories, a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. TEM analyses of NOB materials, if necessary, were performed by AMA Analytical, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.
- F. A drawing of the structure at the Site was created, in order to show sample locations and the approximate locations and amounts of confirmed ACM observed in accessible locations.

Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by LaBella Associates to determine the presence of underground utilities on or in the immediate vicinity of the Site. Actual sample locations are shown in the attached FIGURE 2. Results of bulk sample analyses are tabulated in the attached TABLE.

IV. Results

BIN 1072792 Interstate Route I-481 North Bound over Thompson Road

Based on laboratory analyses of bulk samples collected, no asbestos-containing materials were identified.

Certification

LaBella Associates, P.C. certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this investigation.

Figures & Table

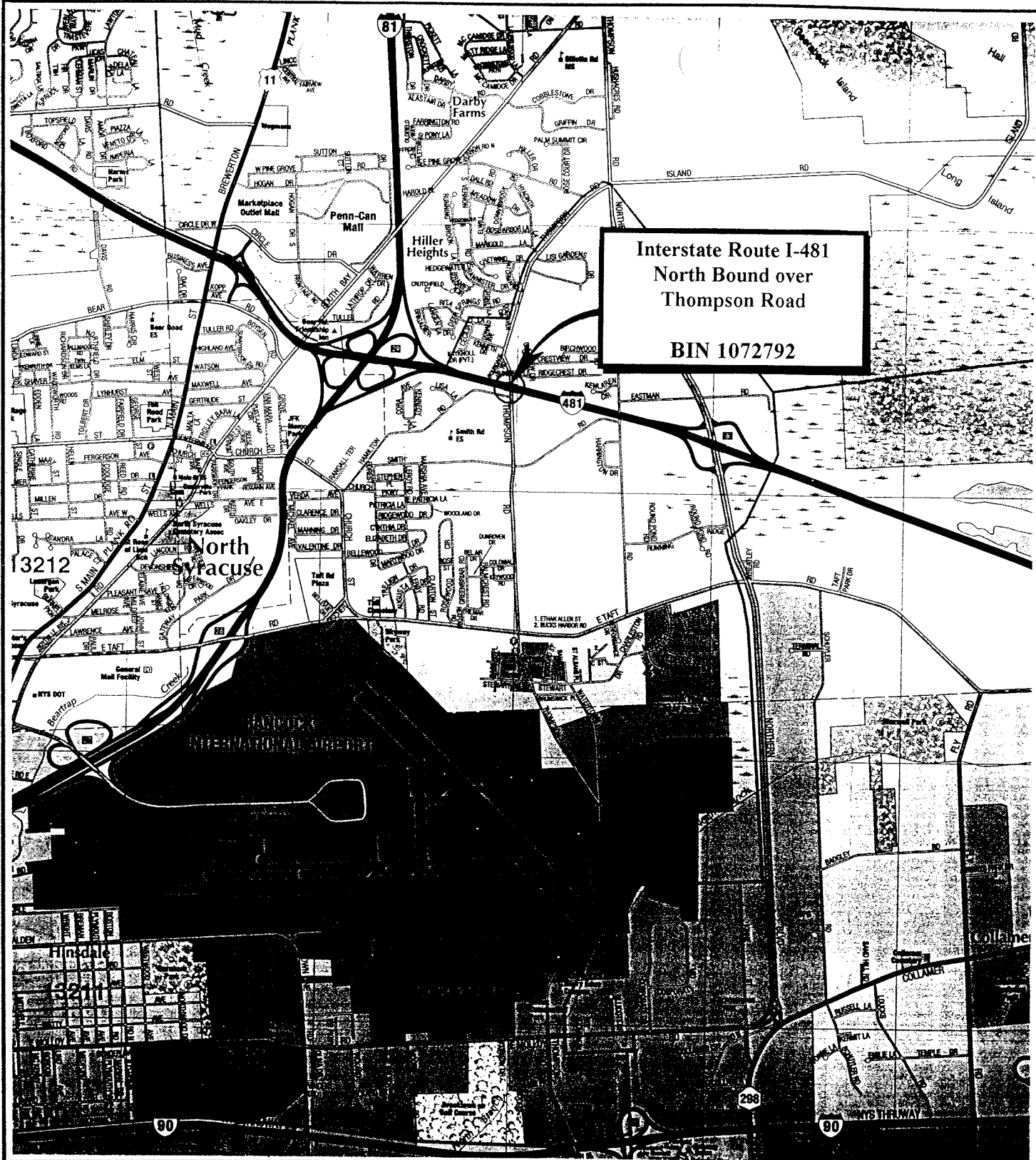
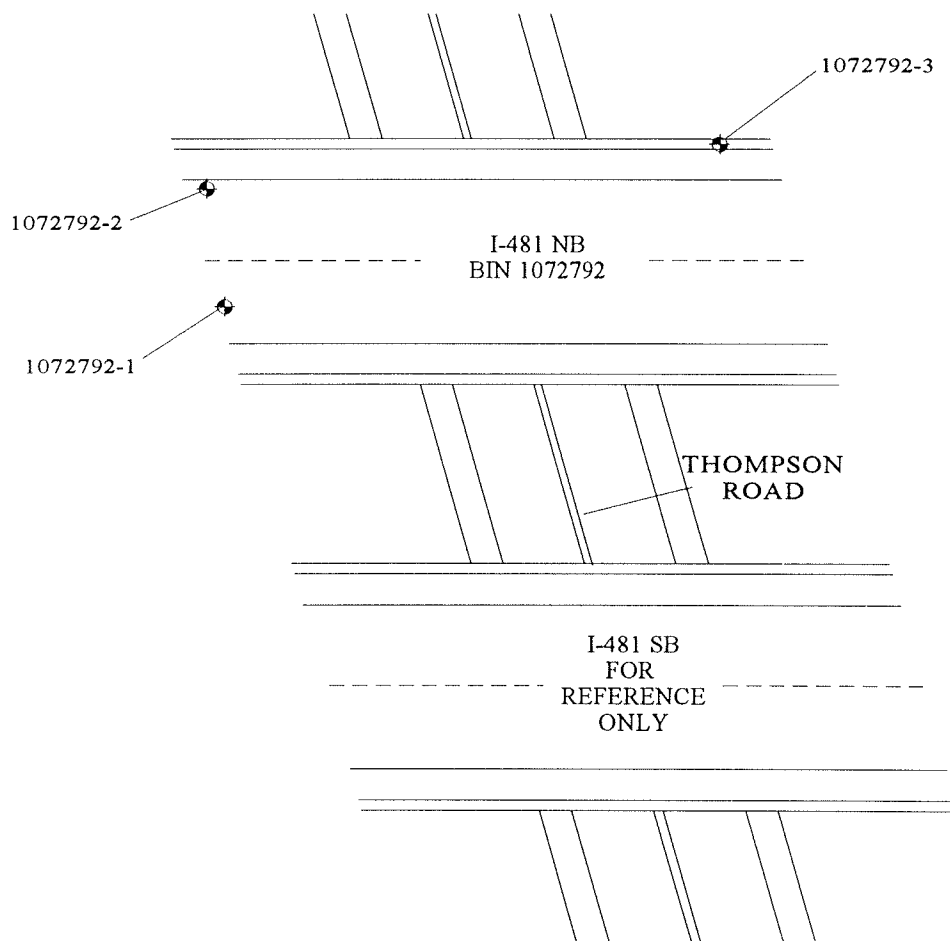


FIGURE 1
Site Location Map

**Interstate Route I-481 North Bound
over Thompson Road
Onondaga County, New York**

ABELLA

PROJECT NO. 201001



NOTE: NO ASBESTOS-CONTAINING
MATERIALS IDENTIFIED.

LEGEND

◆ 1072792-1 SAMPLE LOCATION



NORTH

PROJECT TITLE: ASBESTOS SAMPLING SURVEY
19 BRIDGES ALONG INTERSTATE I-481
ONONDAGA COUNTY, NEW YORK

PROJECT NO. 201001

PIN 3056.13.111

FIGURE TITLE: FIGURE 2 BIN 1072792
I-481 NB OVER THOMPSON ROAD
SAMPLE LOCATIONS &
CONFIRMED ACM

NOT TO SCALE

DATE: AUGUST, 2001

Bulk Sample Results Table

Asbestos Sampling Survey
BIN 1072792
Interstate Route I-481 North Bound
over Thompson Road
Onondaga County, New York
LaBella Project # 201001
PIN 3056.13.111

Sample #	Sample Location	Type of Material	Results % Asbestos	Amount of Material	Specification Item No.
1072792-1	East End of Bridge at Base of Fence	Gray Caulking Compound	None Detected	N/A	N/A
1072792-2	West End of Bridge Beneath Bearing	Bearing Pad	None Detected	N/A	N/A
1072792-3	West End of Bridge on Backwall	Gray Masonry Coating	None Detected	N/A	N/A

BIN 1093561

I-81 (Former I-481) SB over Manlius Center Road (Route 290)

BIN 1093561

Location: I-481 SB over Manlius Center Road (Route 290)

NYSDOT D031085 PIN 3501.60 - I-81 Viaduct Replacement or New Urban Arterial

City of Syracuse, Onondaga County

Bridge Asbestos Assessment Results

Asbestos containing materials have been identified on this bridge.

ITEM	DESCRIPTION	QUANTITY
210.481201	Removal and Disposal of Miscellaneous ACM (BV14) – Sheet Packing	112 SQ FT

The following summarizes the results of the most recent asbestos survey and record plan review.

Watts Inspection Findings (February 2014)

A bridge inspection was completed on 2/25/2014 and the following suspect ACMs were identified and sampled:

- Green girder paint
- Thin beige/grey abutment wall paint on lower part of abutments
- Thick beige/grey paint at top part of abutments
- Bearing pad
- **Compressed asbestos sheet packing**

Laboratory analysis indicated that the compressed asbestos sheet packing sampled by Watts was confirmed positive for asbestos.

Review of Bridge Record Plans

Record plans (D259214) were reviewed in support of the field survey. There were no suspect ACMs identified.

Previous Survey Results

A previous asbestos survey completed by LaBella in 1999 was reviewed in support of this project. The following materials were identified for analysis.

- Green bridge paint
- **Sheet packing**
- Grey masonry coating
- Bearing pad

The sheet packing was identified to be asbestos containing.

**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>buffalolab@emsl.com

EMSL Order: 141400853

CustomerID: WATT50A

CustomerPO:

ProjectID:

Attn: **Scott Matthews**
Watts Architecture & Engineering
2610 Salina Street
Syracuse, NY 13205

Phone: (315) 443-8611
 Fax: (315) 443-8605
 Received: 03/03/14 10:00 AM
 Analysis Date: 3/7/2014
 Collected: 2/25/2014

Project: 13092 - I81 Viaduct Replacement or New Urban Renewal Bin 1093561 - 481 SB Over Manlius Center Rd

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1093561-1 141400853-0001		Description green girder paint Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Green			Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Green			None Detected
Sample ID 1093561-2 141400853-0002		Description green girder paint Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Green			Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Green			None Detected
Sample ID 1093561-3 141400853-0003		Description green girder paint Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Green			Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Green			None Detected
Sample ID 1093561-4 141400853-0004		Description beige/grey abutment wall paint thin coat Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Gray			Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Gray			None Detected
Sample ID 1093561-5 141400853-0005		Description beige/grey abutment wall paint thin coat Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Gray			Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Gray			None Detected

**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>buffalolab@emsl.com

EMSL Order: 141400853
CustomerID: WATT50A
CustomerPO:
ProjectID:

Test Report:Asbestos Analysis of Bulk Material

Test		Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1093561-6 141400853-0006	Description	beige/grey abutment wall paint thin coat		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Gray			Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Gray			None Detected
Sample ID	1093561-7 141400853-0007	Description	beige/grey paint at top of abutment thick coat		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Gray			Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Gray			None Detected
Sample ID	1093561-8 141400853-0008	Description	beige/grey paint at top of abutment thick coat		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Gray			Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Gray			None Detected
Sample ID	1093561-9 141400853-0009	Description	beige/grey paint at top of abutment thick coat		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Gray			Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Gray			None Detected
Sample ID	1093561-10 141400853-0010	Description	bearing pad		
		Homogeneity	Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Brown			Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Brown			None Detected
Sample ID	1093561-11 141400853-0011	Description	bearing pad		
		Homogeneity	Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Brown			Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Brown			None Detected

**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>buffalolab@emsl.com

EMSL Order: 141400853

CustomerID: WATT50A

CustomerPO:

ProjectID:

Test Report:Asbestos Analysis of Bulk Material

Test		Non Asbestos		Asbestos
		Color	Fibrous	Non-Fibrous
Sample ID	1093561-12	Description	bearing pad	
	141400853-0012	Homogeneity	Heterogeneous	
PLM NYS 198.1 Friable				Not Analyzed
PLM NYS 198.6 VCM				Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Brown		Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Brown		None Detected
Sample ID	1093561-13	Description	sheet packing	
	141400853-0013	Homogeneity	Homogeneous	
PLM NYS 198.1 Friable				Not Analyzed
PLM NYS 198.6 VCM				Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Gray		11.8% Chrysotile 11.8% Total
TEM NYS 198.4 NOB	3/7/2014			Not Analyzed
Sample ID	1093561-14	Description	sheet packing	
	141400853-0014	Homogeneity	Homogeneous	
PLM NYS 198.1 Friable				Not Analyzed
PLM NYS 198.6 VCM				Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Gray		11.8% Chrysotile 11.8% Total
TEM NYS 198.4 NOB	3/7/2014			Not Analyzed
Sample ID	1093561-15	Description	sheet packing	
	141400853-0015	Homogeneity	Homogeneous	
PLM NYS 198.1 Friable				Not Analyzed
PLM NYS 198.6 VCM				Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Gray		8.8% Chrysotile 8.8% Total
TEM NYS 198.4 NOB	3/7/2014			Not Analyzed

**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>buffalolab@emsl.com

EMSL Order: 141400853
CustomerID: WATT50A
CustomerPO:
ProjectID:

Test Report: Asbestos Analysis of Bulk Material

Test	Color	Non Asbestos		Asbestos
		Fibrous	Non-Fibrous	

Analyst(s)

Rhonda McGee

Rhonda McGee, Laboratory Manager
or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.

All samples examined for the presence of vermiculite when analyzed via NYS 198.1.

-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606

141400853

WATTS ARCHITECTURE & ENGINEERING ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

 Page: 1 of 2
 Date: 2-25-14

 Client: Parsons Engineering
 Project: I-81 Viaduct Replacement or New Urban Renewal
 Building / Location: BIN 1093561 (401st over Manlius Center Rd)
 Contact: Scott Matthews at (315) 443-8611
 Email Preliminary Results to: smatthews@watts-ae.com
 Mail Invoice to: Accounts Payable
Watts Architecture & Engineering
95 Perry Street, Buffalo, NY 14203

Mail Report to:

 Watts Project No.: 13092
 Turnaround Requested: 3 Hr. 48 Hr.
 Analysis Requested: 6 Hr. 72 Hr.
 PLM X TEM X 12 Hr. X 5 Day
24 Hr. 6-10 Day

 Scott Matthews
 Watts Architecture & Engineering
 2610 S Salina Street, Syracuse, NY 13210 3/3/14
Weekend Math

Sample Number	Material Description	Sample Location	Laboratory Results	
			PLM	TEM
1093561-1	Green grade paint	1093561 SW corner		
2	"	SE corner		
3	"	North middle		
1093561-4	Beige/grey abutment wall paint (thin coat)	SW corner		
-5	"	SE corner		
-6	"	North middle		
-7	Beige/grey paint at top of abutment (thick coat)	SW corner		
-8	"	SE corner		
-9	"	N. middle		
-10	Beating pad	SW corner		
-11	"	SE corner		
-12	"	N. Middle		

Sampled By: Scott MatthewsDate: 2-25-14

Received By: _____

Date: EX

Relinquished By:

Scott Matthews to FedExDate: 2-29-14

Received By: _____

Date: 10Am

Comments: _____

 RECEIVED
 MAR 03 2014
 BY: JD

BIN 1093561 Inspection Photos

I-81 (Former I-481) SB over Manlius Center Road (Route 290)

Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



3/3 1093561



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)
VARIOUS BRIDGES ON INTERSTATE 481
TOWNS OF DEWITT AND CICERO

VOLUME 1 OF 2

432 SHEETS ONONDAGA COUNTY CONTRACT D259214

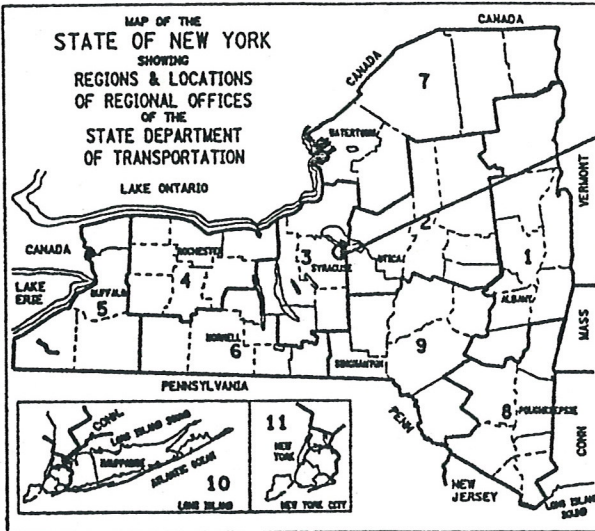
F.A. PROJECT

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (METRIC UNITS) OF JANUARY 2, 2002, AS AMENDED BY ADDENDA NOS. 1 AND 2, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

STANDARD SHEETS

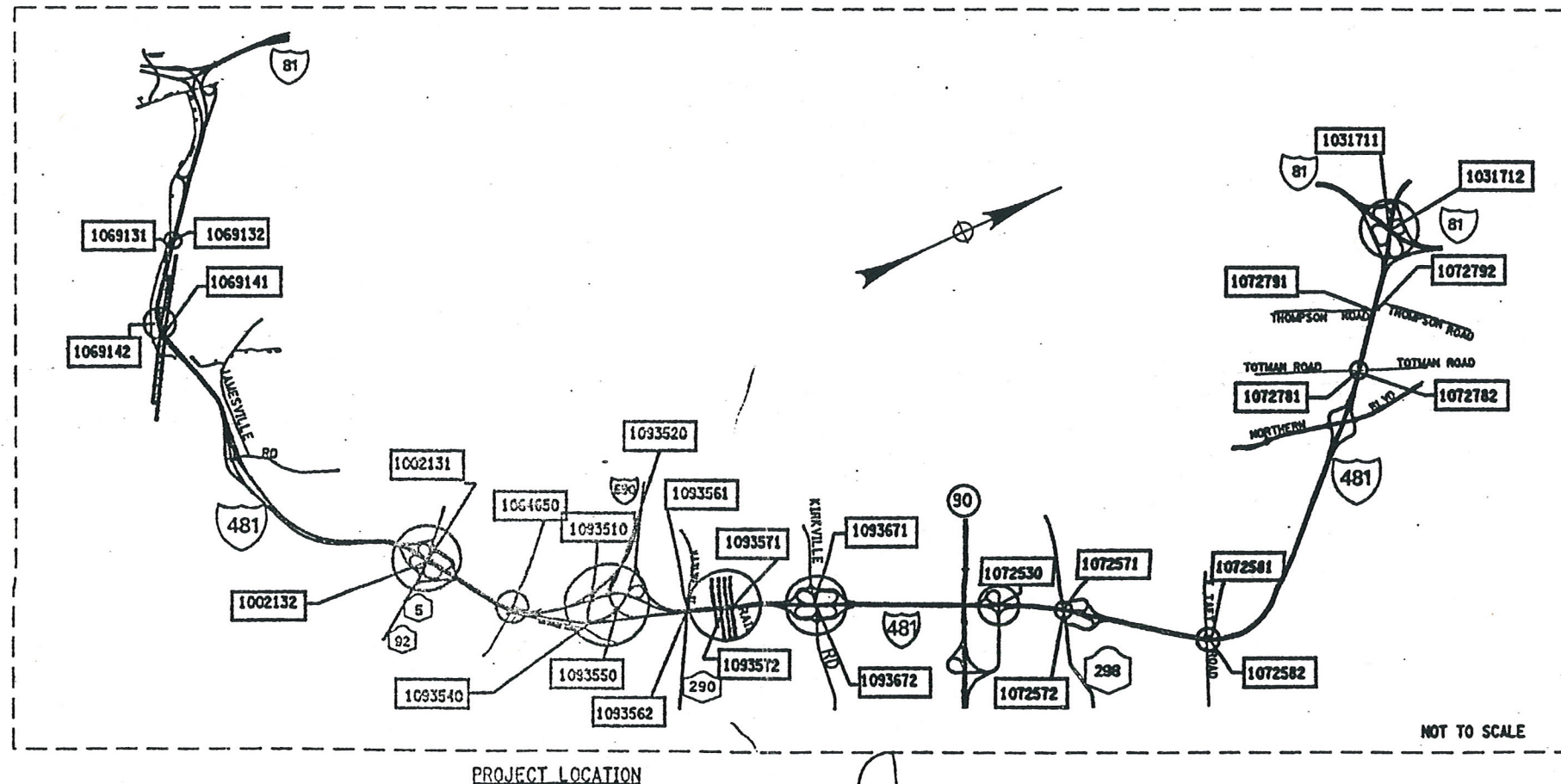
M203-4, M203-5, M203-6R1, M603-1
M606-32, M606-33, M606-34,
M619-3R1, M619-4, M619-5
M685-1, M685-2R1, M685-3R1
M685-4R1, M685-5R1, M403-1, M203-4,
M203-5, M203-6R1, M603-1

Record plans were reviewed on
12-30-13 by GA. No suspect materials
were identified.



THIS IS A BRIDGE REHABILITATION PROJECT ON VARIOUS BRIDGES ON INTERSTATE 481, LOCATED IN THE TOWNS OF CICERO AND DEWITT IN ONONDAGA COUNTY. THIS WORK CONSISTS OF BRIDGE JOINTS, BEARINGS, BRIDGE RAIL AND CONCRETE REPAIR OF SUBSTRUCTURES. THERE ARE 28 BRIDGES IN THE PROJECT BEGINNING AT REFERENCE MARKER 4811-3301-1000 SOUTH OF THE CITY OF SYRACUSE AND ENDING AT REFERENCE MARKER 4811-3301-2143. 1481 INTERCHANGE NORTH OF THE CITY.

CONTRACTOR'S NAME _____
AWARD DATE _____
COMPLETION DATE _____
FINAL ACCEPTANCE DATE _____
REGIONAL DIRECTOR _____
ENGINEER IN CHARGE _____
FINAL COST TOTAL _____
FISCAL SHARE COST(S)



NOT TO SCALE

BRIDGE REHAB. PROJ.- ELEMENT SPECIFIC			
VARIOUS BRIDGES ON INTERSTATE 481			
TOWNS OF DEWITT AND CICERO			
ONONDAGA COUNTY			
FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	N.Y.	1	432
FEDERAL AID PROJECT NO.			
CAPITAL PROJECT IDENTIFICATION NO. 3056.13			
INDEX ON SHEET NO. 5 & 6			

RECOMMENDED BY *John E. Fuchs* 9/04/02 DATE REGIONAL DESIGN ENGINEER
RECOMMENDED BY *Murray A. Dineen* 9/14/02 DATE REGIONAL CONSTRUCTION ENGINEER
RECOMMENDED BY *Carl R. Fuchs* 9/04/02 DATE REGIONAL TRANSPORTATION MAINTENANCE ENGINEER
RECOMMENDED BY *Benjamin A. Fuchs* 9-4-02 DATE REGIONAL TRAFFIC ENGINEER
APPROVED BY *William S. Fuchs* 09-04-02 DATE REGIONAL DIRECTOR

DESIGNED BY *William S. Fuchs* CHECKED BY *John E. Fuchs* ESTIMATED BY *John E. Fuchs* DRAFTED BY *John E. Fuchs* CHECKED BY *John E. Fuchs*

CHECKED BY _____ DRAFTED BY _____ ESTIMATED BY _____ DESIGNED BY _____

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157-160	CROSSOVER SURVEY CONTROL DATA	HC-1 - HC-4
161-166	CROSSOVER PLANS	CPL-1 - CPL-6
167-174	CROSSOVER PROFILES	CPR-1 - CPR-8
175-177	CROSSOVER MISC. DETAILS	CMD-1 - CMD-3
178-179	CROSSOVER MISC. TABLES	CMT-1 - CMT-2
180-191	ESTIMATE OF QUANTITIES BY STRUCTURE	QE-1A - QE-4C
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229	BIN 1031712, EAST ABUTMENT (NB) PLAN & ELEVATION	AB3-3
230	BIN 1031712, WEST ABUTMENT (NB) PLAN & ELEVATION	AB3-4
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255	BIN 1072581 & 1072582, TYPICAL BRIDGE SECTION AND PROFILE	TS9-1
256-257	BIN 1072581, SOUTH ABUTMENT AND NORTH ABUTMENT (SB)	AB9-1 & AB9-2
258-259	BIN 1072582, SOUTH ABUTMENT AND NORTH ABUTMENT (NB)	AB9-3 & AB9-4
260	BIN 1072781 & BIN 1072782, I-481/TOTMAN ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP10-1
261	BIN 1072781 & BIN 1072782 TYPICAL BRIDGE SECTION AND PROFILE	TS10-1
262-263	BIN 1072781, EAST ABUTMENT (SB) PLAN & ELEVATION	AB10-1 & AB10-2
264	BIN 1072782, WEST ABUTMENT (NB) PLAN & ELEVATION	AB10-3
265	BIN 1072781, APPROACH SLABS	AS10-1
266	BIN 1072791 & BIN 1072792, I-481/ THOMPSON ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP11-1
267	BIN 1072791 & BIN 1072792 TYPICAL BRIDGE SECTIONS AND PROFILE	TS11-1
268	BIN 1072791, EAST & WEST ABUTMENTS (SB)	AB11-1
269	BIN 1072791, APPROACH SLAB (SB)	AS11-1
270	BIN 1093510, I-690 RAMP/ I-481SB, PLAN, ELEVATION, AND BRIDGE SECTION	GP12-1
271	BIN 1093510, WEST ABUTMENT PLAN & ELEVATION	AB12-1
272	BIN 1093520, WN LINE OVER INTERSTATE 481 SB, PLAN, ELEVATION, AND BRIDGE SECTION	GP13-1
273	BIN 1093520, WEST ABUTMENT PLAN & ELEVATION	AB13-1
274	BIN 1093540, I-690 EB/ I-481 NB RAMP, PLAN, ELEVATION, AND BRIDGE SECTION	GP14-1
275	BIN 1093540 TYPICAL BRIDGE SECTION AND PROFILE	TS14-1
276	BIN 1093540, WEST ABUTMENT	AB14-1
277	BIN 1093550, I-481 NB/WB CONNECTOR, PLAN, ELEVATION, AND BRIDGE SECTION	GP15-1
278	BIN 1093550, SOUTH ABUTMENT, NB PLAN & ELEVATION	AB15-1
279	BIN 1093550, NORTH ABUTMENT, NB PLAN & ELEVATION	AB15-2
280	BIN 1093561 & 1093562, I-481/ROUTE 290, PLAN, ELEVATION AND BRIDGE SECTION	GP16-1
281	BIN 1093561 & 1093562 TYPICAL BRIDGE SECTION AND PROFILE	TS16-1
282	BIN 1093561, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB16-1
283	BIN 1093562, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB16-2
284-287	BIN 1093571 & BIN 1093572, I-481/CSX RAILROAD YARD, PLAN & ELEVATION	GP17-1 - GP17-4
288	BIN 1093571 AND BIN 1093572, TYPICAL BRIDGE SECTION AND PROFILES	TS17-1
289-293	BIN 1093571 AND BIN 1093672, DRAINAGE DETAILS	DD17-1 - DD17-5
294-296	BIN 1093571 AND BIN 1093672, SCUPPER EXTENSIONS	DD17-6 - DD17-8
297-314	BIN 1093571, PIERS 1-14, (SB)	PR17-1S - PR17-1BS
315	BIN 1093572, SOUTH ABUTMENT (NB)	AB17-1
316-329	BIN 1093572, PIERS 1-14 (NB)	PR17-1N - PR17-14N
330-331	BIN 1093571 AND 1093572, PARAPET REPAIR DETAILS	PW17-1 & PW17-2
332	BIN 1093572, BRIDGE DECK REPAIRS	DR17-1

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	5	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. ALL BINS		
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED				
AS BUILT REVISIONS				
SIGNATURE		DATE		
INTERSTATE 481 REHABILITATION PROJECT				
INDEX				
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION				
FILENAME 305613AAL2A	REGION 3	DATE 10/02	DRAWING NO. IDX-1	

CHECKED BY: UNAP'LEU BT
ESTIMATED BY: UNAP'LEU BT
DRAWING NO. 305613AAL2A

INDEX (CONTINUED)		
SHEET NO.	DESCRIPTION	DRAWING NO.
333	BIN 1093671 & 1093672, I-481/KIRKVILLE ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP18-1
334	BIN 1093671 & BIN 1093672 TYPICAL BRIDGE SECTION AND PROFILE	TS18-1
335-336	BIN 1093671, SOUTH ABUTMENT (SB) PLAN, ELEVATION AND SECTIONS	AB18-1 - AB18-2
337	BIN 1093671, NORTH ABUTMENT (NB) PLAN & ELEVATION	AB18-3
338-339	BIN 1093672, SOUTH ABUTMENT (NB) PLAN, ELEVATION AND SECTIONS	AB18-4 - AB18-5
340	BIN 1093672, NORTH ABUTMENT (NB) PLAN & ELEVATION	AB18-6
341-342	BIN 1002131, BIN 1002132 & BIN 1093571, MULTIROTATIONAL BEARINGS	BR-1 & BR-2
343	BIN 1002131, BEARING RESTORATION DETAILS	BR-3
344	BINS 1069131 & 1069132, BEARING RESTORATION DETAILS	BR-4
345-346	BIN 1069141 & BIN 1069142, BEARING RESTORATION DETAIL	BR-5 & BR-6
347	BIN 1072530, BEARING RESTORATION DETAILS	BR-7
348	BIN 1072791 AND BIN 1072792 BEARING RESTORATION DETAILS	BR-8
349	BIN 1093550, BEARING RESTORATION DETAILS	BR-9
350-351	BINS 1093751 & 1093572, BEARING RESTORATION DETAILS	BR-10 & BR-11
352	BIN 1072781 BEARING RESTORATION DETAILS	BR-12
	RAILING DETAILS	
353-355	BIN 1002131 & BIN 1002132, RAILING DETAILS	RD-1 - RD-3
356-358	BIN 1069141 & BIN 1069142, RAILING DETAILS	RD-4 - RD-6
359-360	RAILING DETAILS	RD-7 - RD-8
	BRIDGE JOINTS	
361-364	BRIDGE JOINT TABLE	JT-1 - JT-4
365	COMPRESSION SEAL JOINT DETAIL (ALL BRIDGES)	JD-1
366-370	BIN 1002131, JOINT DETAILS	JD-2 - JD-6
371-375	BIN 1002132, JOINT DETAILS	JD-7 - JD-11
376-377	BIN 1031711 & BIN 1031712, JOINT DETAILS	JD-12 - JD-13
378-383	BIN 1064650, JOINT DETAILS	JD-14 - JD-19
384-385	BIN 1069131, JOINT DETAILS	JD-20 + JD-21
386-387	BIN 1069132, JOINT DETAILS	JD-22 + JD-23
388-392	BIN 1069141 & BIN 1069142	JD-24 - JD-28
393-394	BIN 1072530, JOINT DETAILS	JD-29 + JD-30
395-396	BIN 1072571, JOINT DETAILS	JD-31 + JD-32
397-398	BIN 1072572, JOINT DETAILS	JD-33 + JD-34
399-400	BIN 1072581, JOINT DETAILS	JD-35 + JD-36
401-402	BIN 1072582, JOINT DETAILS	JD-37 + JD-38
403-404	BIN 1072781, JOINT DETAILS	JD-39 + JD-40
405-406	BIN 1072782, JOINT DETAILS	JD-41 + JD-42
407-408	BIN 1072792, JOINT DETAILS	JD-43 + JD-44
409-410	BIN 1093510, JOINT DETAILS	JD-45 + JD-46
411	BIN 1072791, BIN 1093520 & BIN 1093540, JOINT DETAILS	JD-47
412-413	BIN 1093550, JOINT DETAILS	JD-48 + JD-49
414-416	BIN 1093561 & BIN 1093562, JOINT DETAILS	JD-50 - JD-52
417-420	BIN 1093571 & BIN 1093572, JOINT DETAILS	JD-53 - JD-56
421-423	BIN 1093671 & BIN 1093672, JOINT DETAILS	JF-57 - JD-59

INDEX (CONTINUED)		
SHEET NO.	DESCRIPTION	DRAWING NO.
424	VARIOUS BRIDGES - ROAD PLATE DETAIL	AA - RP1
	BAR LIST	
425-428	ALL BINS (BRIDGE JOINT SYSTEMS)	BL-1 - BL-4
429	BIN 1002131 & 1002132	BL-5
430	BIN 1093571	BL-6
431	STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS	MS-1
432	MISC. TABLE	MT-1

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	6	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGE ON INTERSTATE 481				
TOWN OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED				
AS BUILT REVISIONS				
SIGNATURE _____ DATE _____				
INTERSTATE 481 REHABILITATION PROJECT				
INDEX				
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION				
FILENAME 305613AAL2A	REGION 3	DATE 10/02	DRAWING NO. 10X-2	

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FILENAME	REGION	DATE	DRAWING NO.
305613.L1A	3	10/02	QE-4A

ESTIMATE OF QUANTITIES BY STRUCTURE

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
	1	N.Y.	D259214	190
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE _____ DATE _____

SHEET 11 OF 12

ESTIMATE OF QUANTITIES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION



FILENAME	REGION	DATE	DRAWING NO.
30561341A	3	10/02	QE-4B

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ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

ESTIMATE OF QUANTITIES BY STRUCTURE

ITEM #	DESCRIPTION	UNIT	1093550		1093561		1093562		1093571		1093572		1093671		1093672	
			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
605.0901 M	UNDERDRAIN FILTER TYPE 1	CM														
605.1702 M	OPT. UNDERDRAIN PIPE 150 mm Ø	M														
606.73 M	REMOVE AND DISPOSE OF BOX BEAM GUIDE RAIL	M														
606.8701 M	CORRUGATED BEAM GUIDE RAILING TRANSITION ASSEMBLY, TWO RAIL, STEEL BRIDGE RAILING	EA						2		2						
16606.80 M	TRANSITION BRIDGE RAILING TO BOX BEAM GUIDE RAIL	M														
609.15 M	RESETTING EXISTING CURB	M														
610.0203 M	ESTABLISH TURF	SM						100		200						
612.0205 M	CLASS II TYPE B EROSION CONTROL MATERIAL	SM						100		150						
08615.0402 M	TREE AND VEGETATION BARRIER	M						150		150						
620.03 M	STONE FILLING (LIGHT)	CM						6		8						
625.01 M	SURVEY AND STAKEOUT	LS														
637.03 M	CONCRETE CYLINDER CURING BOX	EA														
637.0702 M	ENGINEER'S OFFICE TYPE C	MONTH														
10637.2101 M	FURN PORTABLE CELLULAR TELEPHONE EQUIP.	LS														
08637.3501 M	MICRO COMPUTER SYSTEM	EA														
15637.61 M	CPM SCHEDULE	LS														
15637.51 M	DIGITAL CAMERA SYSTEM	LS														
15637.91 M	CHAMPS MANAGEMENT SYSTEM	LS														
15637.98 M	PARTNERING WORKSHOP	LS														
640.10 M	WHITE PAINT REFLEC PAVEMENT STRIPES-0.38 mm	M	12		8		9		8		8		9		9	
640.11 M	YELLOW PAINT REFLEC PAVEMENT STRIPES-0.38 mm	M	9		4		6		6		6		6		6	
14646.10 M	MILLED IN AUDIBLE ROWAY DELINS (WIARD)	M														
23675.15M	FURDISH AND PLACE STONE BALLAST SURFACING COURSE	MT									2					
91685.0705 M	WHT POLYESTER REFLEC PAVEMENT STRIPE	M	12		8		9		8		8		9		9	
91685.0706 M	YEL POLYESTER REFLEC PAVEMENT STRIPE	M	9		4		6		6		6		6		6	
697.02 M	FIELD CHANGE ORDER	LS														
699.040001 M	MOBILIZATION	LS	NEC		NEC		NEC		NEC		NEC		NEC		NEC	

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0259214	191	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. VARIOUS		

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: SPEC BOOK/PROPOSAL
m	M	METER
m ²	SQM	SQUARE METER
m ³	CM	CUBIC METER
km	KM	KILOMETER
ha	HA	HECTARE
kg	KG	KILOGRAM
t OR Mgs	MT	METRIC TON
L	L	LITER

• THE METRIC TON IS EQUIVALENT TO ONE MEGAGRAM (Mg)

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AS BUILT REVISIONS

SIGNATURE

DATE

SHEET 12 OF 12

ESTIMATE OF QUANTITIES

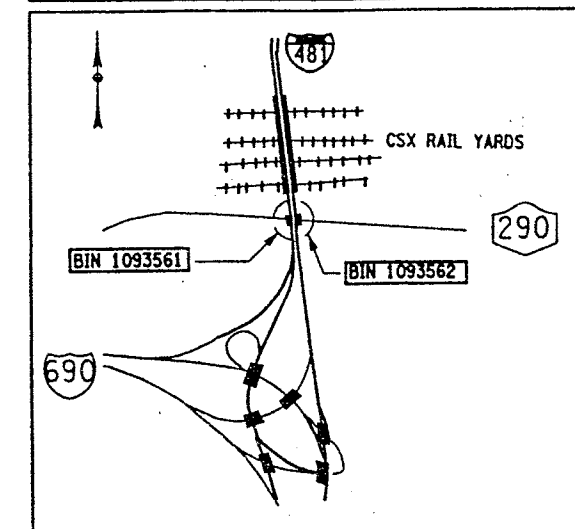


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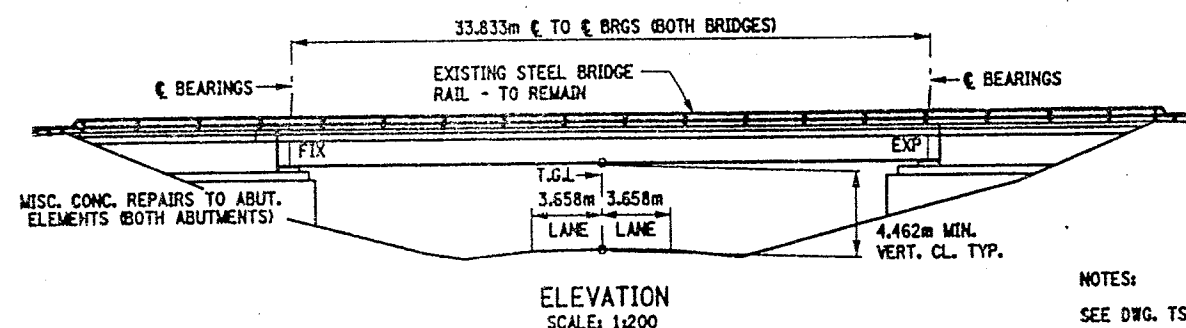
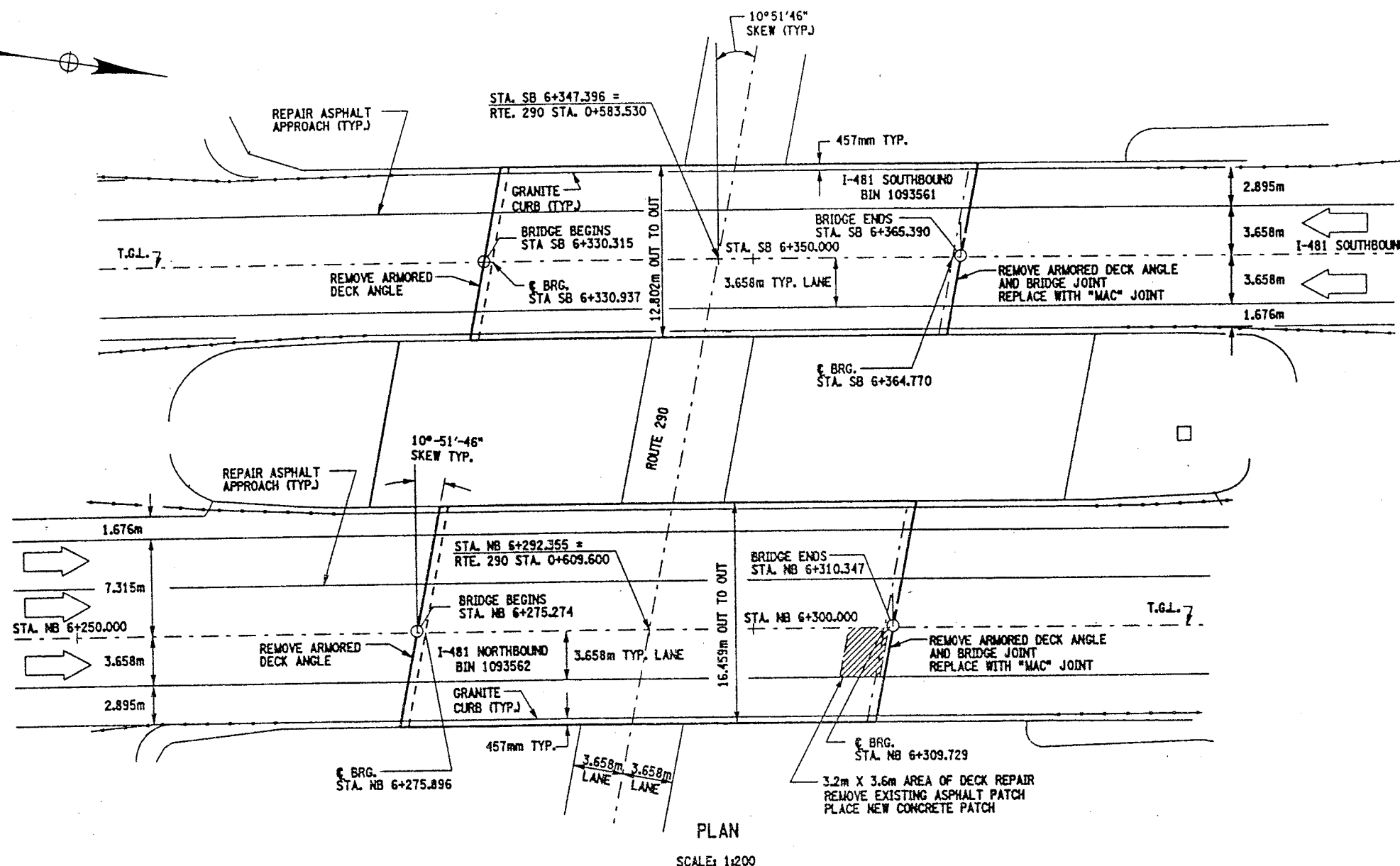
FILENAME 305613.11A	REGION 3	DATE 10/02	DRAWING NO. QE-4C
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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0259214	280	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)
 VARIOUS BRIDGES ON INTERSTATE 481
 TOWNS OF DEWITT AND CICERO
 ONONDAGA COUNTY
 P.I.N. 305613 B.I.N. 1093561 & 1093562



LOCATION MAP
NOT TO SCALE



- WORK TO BE DONE ON BIN 1093561 (NOT NECESSARILY IN THIS ORDER)
1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION.
 2. REMOVE EXISTING BRIDGE JOINT, END ABUTMENT (NORTH), TO INCLUDE REMOVAL OF THE ARMORING DECK ANGLE.
 3. REMOVE EXISTING ARMORING DECK ANGLE AT BEGINNING ABUTMENT, (SOUTH).
 4. INSTALL PROPOSED BRIDGE JOINT AT END ABUTMENT, ("MAC" JOINT).
 5. REPAIR DECK AREA AT BEGINNING ABUTMENT WHERE THE ARMORING DECK ANGLE WAS REMOVED.
 6. PERFORM MINOR REPAIRS TO ASPHALT APPROACHES.
 7. PERFORM MISCELLANEOUS REPAIRS TO CONCRETE ELEMENTS AT BOTH ABUTMENTS.

NOTES:
 SEE DWG. TS16-1 FOR WORK TO BE DONE ON BIN 1093562.
 "MAC" JOINT IS A MODIFIED ARMORED JOINT SYSTEM WITH COMPRESSION SEAL.
 UTILITIES BELONGING TO 'NEWCHANNEL CORP.' AND ELECTRIC UTILITIES IN VICINITY OF THESE STRUCTURES. SEE INFORMATION AVAILABLE TO BIDDERS FOR ADDITIONAL DETAILS.

BIN 1093561 SOUTHBOUND
 BIN 1093562 NORTHBOUND

ALL DIMENSIONS ARE IN M UNLESS OTHERWISE NOTED
 AS BUILT REVISIONS

SIGNATURE DATE
 INTERSTATE 481
 OVER
 ROUTE 290
 PLAN, ELEVATION AND BRIDGE SECTION

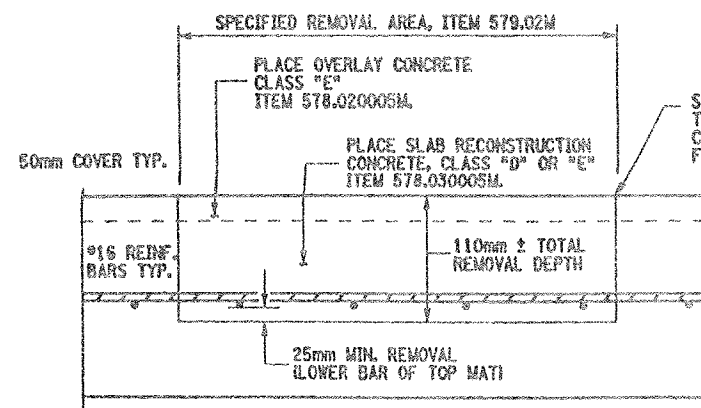
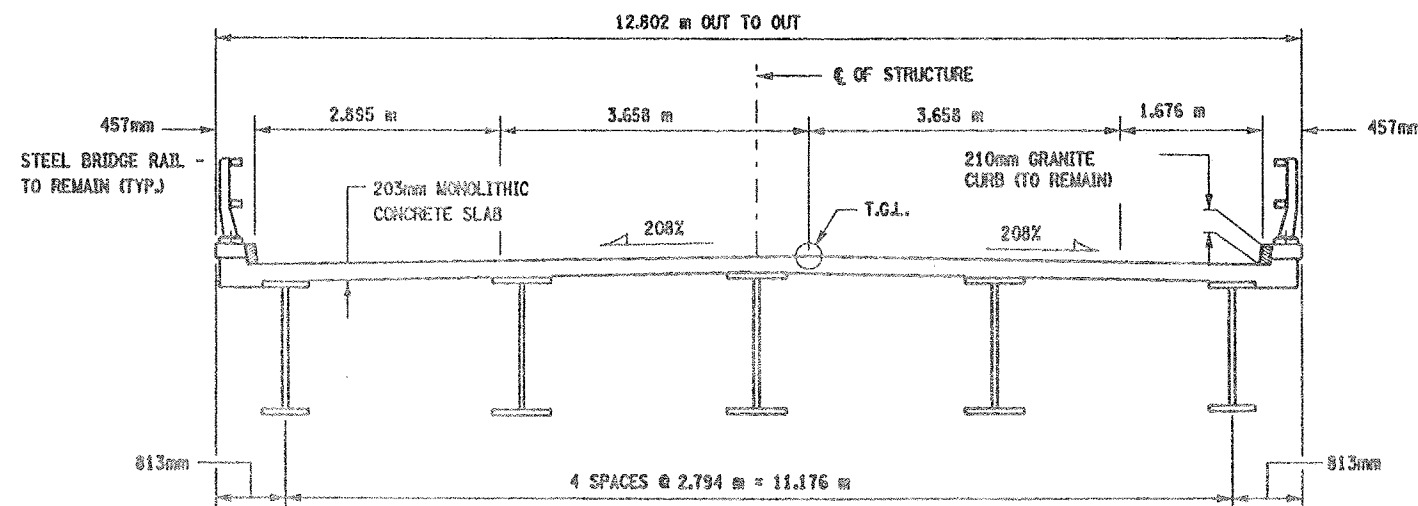
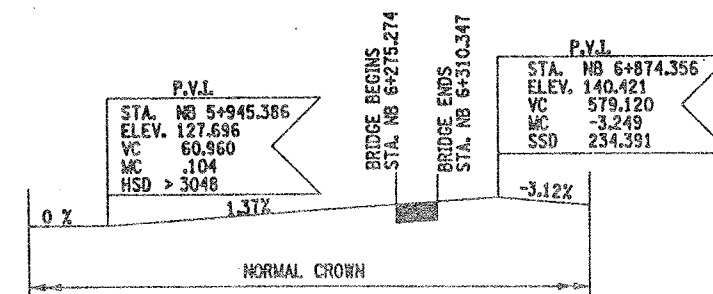
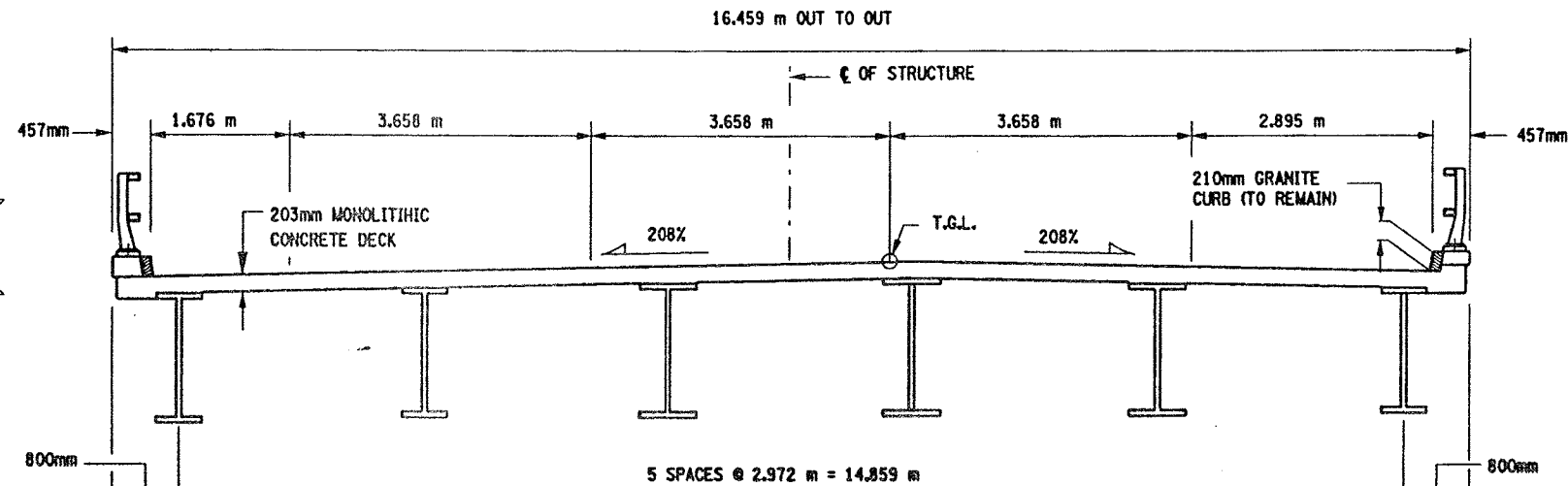
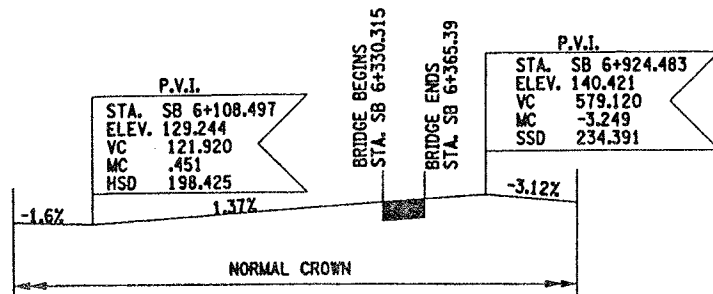
STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION

FILENAME 305613AG.G1A	REGION 3	DATE 10/02	DRAWING NO. GP16-1
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 DESIGNED BY
 JOB MANAGER
 DESIGN SUPERVISOR

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JOB MANAGER
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0259214	281	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093561 & 1093562		



DECK REPAIR NOTES:

THIS LOCATION IS CURRENTLY FILLED WITH ASPHALT (BLACKTOP). DEPTH OF ASPHALT IS UNKNOWN, ESTIMATED AT @ 38mm. THE REMOVAL OF THE ASPHALT AND CONCRETE TO LIMITS SHOWN TO BE PAID UNDER ITEM 579.02M.

REMOVE CONCRETE TO LIMITS SHOWN AND TO SOUND CONCRETE AS ORDER BY ENGINEER.

THE AREA THAT IS REPAIRED SHALL ALSO RECEIVE:

ITEM 558.01M - TRANSVERSE SAWCUT GROOVING
ITEM 18559.1896M - PROTECTIVE SEALING

THE AREA SHOWN IS THE RESULT OF FIELD INVESTIGATION AND IS AN APPROXIMATE AREA. THE ACTUAL LIMITS SHALL BE AS DIRECTED BY ENGINEER.

NO FULL DEPTH SLAB REPAIR IS EXPECTED AT THIS LOCATION.

REFER TO DRAWING NO. CM-1 FOR SERIALIZED ITEM NOTES.

ITEMS USED:

ITEM 558.01M - TRANSVERSE SAWCUT GROOVING (SM)
ITEM 18559.1896M - PROTECTIVE SEALING FOR STRUCT. CONC. (SM)
ITEM 578.020005M - OVERLAY CONCRETE, CLASS "E" (SM)
ITEM 578.030005M - SLAB RECONSTRUCTION CONCRETE, CLASS "D" OR "E" (SM)
ITEM 579.02M - REINFORCING BAR EXPOSURE (SM)

GENERAL NOTES:

SEE DWG. GP16-1 FOR WORK TO BE DONE ON BIN 1093561.

"MAC" JOINT IS A MODIFIED ARMORED JOINT SYSTEM WITH COMPRESSION SEAL.

UTILITIES BELONGING TO 'NEWCHANNEL CORP.' AND ELECTRIC UTILITIES IN VICINITY OF THESE STRUCTURES. SEE INFORMATION AVAILABLE TO BIDDERS FOR ADDITIONAL DETAILS.

WORK TO BE DONE ON BIN 1093562- (NOT NECESSARILY IN THIS ORDER)

1. ESTABLISH MPAT SCHEME FOR STAGE CONSTRUCTION.
2. REMOVE EXISTING BRIDGE JOINT, END ABUTMENT (NORTH), TO INCLUDE REMOVAL OF THE ARMORING DECK ANGLE.
3. REMOVE EXISTING ARMORING DECK ANGLE AT BEGINNING ABUTMENT, (SOUTH).
4. INSTALL PROPOSED BRIDGE JOINT AT END ABUTMENT, ("MAC" JOINT).
5. REPAIR DECK AREA AT BEGINNING ABUTMENT WHERE THE ARMORING DECK ANGLE WAS REMOVED.
6. PERFORM MINOR REPAIRS TO ASPHALT APPROACHES.
7. PERFORM MISCELLANEOUS REPAIRS TO CONCRETE ELEMENTS AT BOTH ABUTMENTS.
8. REMOVE EXISTING BRIDGE DECK ASPHALT PATCH.
9. PLACE NEW CONCRETE BRIDGE DECK PATCH.

ALL DIMENSIONS ARE IN M UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481
OVER
ROUTE 290

TYPICAL BRIDGE SECTION AND PROFILE



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AG.G1A	3	10/02	TS16-1

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DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	282	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)

VARIOUS BRIDGES ON INTERSTATE 481


TOWNS OF DEWITT AND CICERO

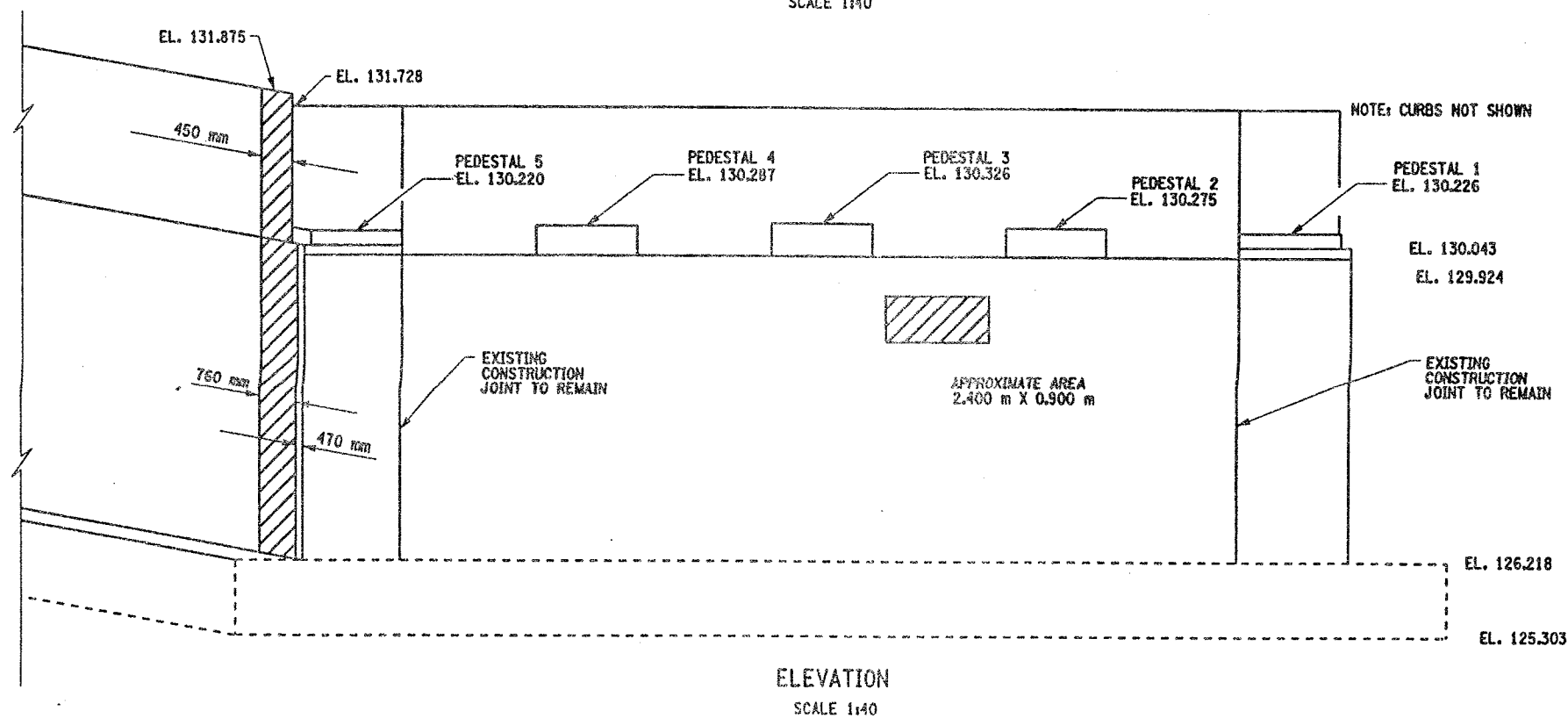
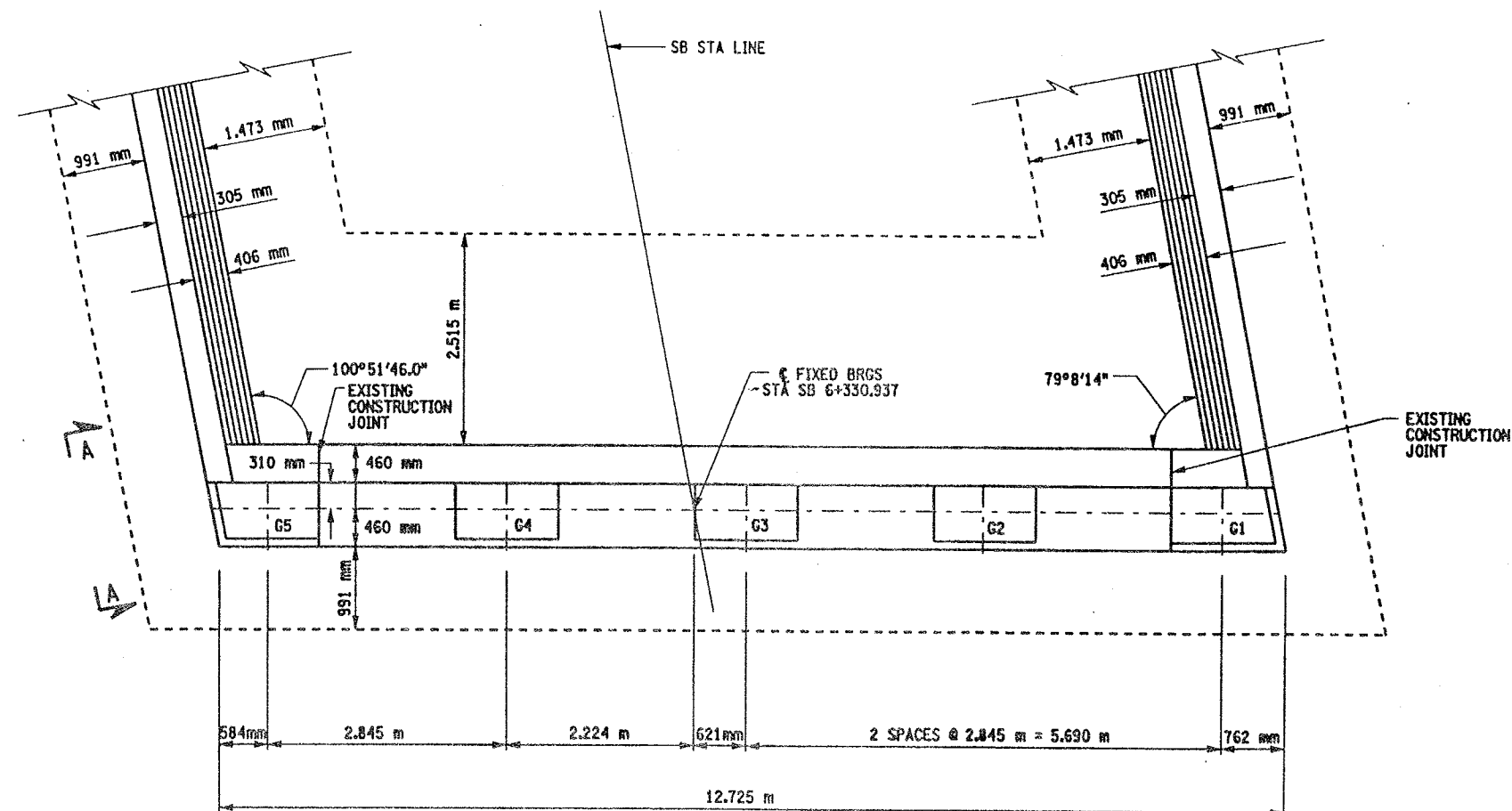
ONONDAGA COUNTY

P.I.N. 305613 B.I.N. 1093561

NOTES:

- ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND EIC.
- REMOVE CONCRETE TO LIMITS SHOWN AS WELL AS TO SOUND CONCRETE, A.O.B.E.
- WHEN REMOVING EXISTING CONCRETE, SAWCUT 5 mm MIN. TO PRODUCE NEAT REMOVAL LINES. ANY COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 582.05M.
- ALL EXISTING REINFORCEMENT TO REMAIN.
- ELEVATIONS ARE GIVEN FOR QUANTITY ESTIMATES ONLY.
- REFER TO CONTRACT FISH 70-7 FOR ORIGINAL CONSTRUCTION DETAILS AND D251436 FOR ADDITIONAL DETAILS.
- FOR REMOVAL DETAIL SEE DWG. AB16-2.

 AREAS OF PROPOSED WORK: ITEM 582.05M
REMOVAL OF STRUCTURAL CONCRETE-
REPLACEMENT WITH CLASS A CONCRETE



LIST OF ITEMS USED:

ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE
REPLACEMENT WITH CLASS A CONCRETE (CM)

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE		DATE	
INTERSTATE 481 SB OVER ROUTE 290 SOUTH ABUTMENT PLAN AND ELEVATION			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AG.A18	REGION 3	DATE 10/02	DRAWING NO. AB16-1

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JOB MANAGER

DESIGN SUPERVISOR

BRIDGE JOINT TABLE

B.I.N. NUMBER	JOINT LOCATION	JOINT SKEW	SPAN(S) LENGTH FOR JOINT (METERS)	JOINT BEND LOCAT'N		EXISTING JOINT TYPE	PROPOSED JOINT TYPE	CURB TO CURB DISTANCE (METERS) (SEE NOTES)	FASCIA & MEDIAN LENGTH (METERS) LT/RT	TOTAL LENGTH (METERS)	JOINT ITEM NUMBER(S)	DRAWING NUMBER		
				RT	LT							SECT VIEW	PLAN VIEW	FASCIA DETAIL
1093520	WEST ABUT.	10°-00'-00"	—	N	N	ADA	—	9.286	.464/.464	10.214	—	JD-47	—	JD-47
	EAST ABUT.	3°-00'-00"	39.014	N	N	ACJ/ADA	RCS	9.157	.458/.458	10.073	16567.64M	JD-47	—	JD-47
1093540	WEST ABUT.	3°-00'-00"	—	N	N	ACJ/ADA	RCS	9.157	.458/.458	10.073	16567.64M	JD-47	—	JD-47
	EAST ABUT.	3°-00'-00"	35.662	N	N	ADA	—	9.157	.458/.458	10.073	—	JD-47	—	JD-47
1093550	SOUTH ABUT.	51°-00'-00"	—	N	N	OPEN/ADA	RADA	18.890	.726/.726	20.342	—	JD-49	JD-48	—
	NORTH ABUT.	51°-00'-00"	45.750	N	N	ADA	RADA	18.890	.726/.726	20.342	—	JD-49	JD-48	—
1093561	SOUTH ABUT.	10°-51'-46"	—	N	N	ADA	RADA	12.104	.465/.465	13.034	—	JD-51	JD-50	JD-52
	NORTH ABUT.	10°-51'-46"	33.832	N	N	ACJ/ADA	MAC-5	12.104	.465/.465	13.034	567.35M	JD-51	JD-50	JD-52
1093562	SOUTH ABUT.	10°-51'-46"	—	N	N	ADA	RADA	15.828	.465/.465	16.758	—	JD-51	JD-50	JD-52
	NORTH ABUT.	10°-51'-46"	33.832	N	N	ACJ/ADA	MAC-5	15.828	.465/.465	16.758	567.35M	JD-51	JD-50	JD-52
1093571	SOUTH ABUT.	8°-43'-42"	26.212	N	N	ACJ/ADA	MOD-1	10.330	.616/.616	11.562	566.01M	JD-55	JD-53	JD-56
	PIER 1	8°-43'-42"	46.939	N	N	OPEN	NONE	10.330	.616/.616	11.562	—	JD-56	—	—
	PIER 2	8°-43'-42"	51.511	N	N	OPEN	NONE	10.330	.616/.616	11.562	—	JD-56	—	—
	PIER 3	8°-43'-42"	59.740	N	N	OPEN	NONE	10.330	.616/.616	11.562	—	—	—	—
	PIER 4	8°-43'-42"	59.740	N	N	OPEN	NONE	10.330	.616/.616	11.562	—	—	—	—
	PIER 5	8°-43'-42"	59.740	N	N	OPEN	NONE	10.330	.616/.616	11.562	—	—	—	—
	PIER 6	8°-43'-42"	37.490	N	N	ACJ	MOD-1	10.330	.616/.616	11.562	566.01M	JD-55	JD-54	JD-56
	PIER 7	8°-43'-42"	37.490	N	N	ACJ	MOD-1	10.330	.616/.616	11.562	566.01M	JD-55	JD-54	JD-56
	PIER 8	8°-43'-42"	37.490	N	N	ACJ	MOD-1	10.330	.616/.616	11.562	566.01M	JD-55	JD-54	JD-56
	PIER 9	8°-43'-42"	44.196	N	N	OPEN	NONE	10.330	.616/.616	11.562	—	JD-56	—	—
	PIER 10	0°-00'-00"	37.643	N	N	ACJ	MOD-1	10.210	.610/.610	11.430	566.01M	JD-55	JD-54	JD-56
	PIER 11	0°-00'-00"	37.643	N	N	ACJ	MOD-1	10.210	.610/.610	11.430	566.01M	JD-55	JD-54	JD-56
	PIER 12	0°-00'-00"	37.643	N	N	ACJ	MOD-1	10.210	.610/.610	11.430	566.01M	JD-55	JD-54	JD-56
	PIER 13	0°-00'-00"	37.643	N	N	ACJ	MOD-1	10.210	.610/.610	11.430	566.01M	JD-55	JD-54	JD-56
	PIER 14	0°-00'-00"	37.643	N	N	ACJ	MOD-1	10.210	.610/.610	11.430	566.01M	JD-55	JD-54	JD-56
	NORTH ABUT.	0°-00'-00'	—	N	N	ADA	RADA	10.210	.610/.610	11.430	—	JD-55	JD-54	—

INFORMATIONAL NOTES:

BDN 1093550 & 1093571

CLEAN EXISTING DRAINAGE SYSTEMS AT OPEN JOINTS
(OPEN JOINTS TO REMAIN), AS SHOWN ON CONTRACT
PLANS OR AS DIRECTED BY THE ENGINEER.

FOR JOINT DETAILS REFER TO THE FOLLOWING DRAWINGS:

DWG. NO. JD-1 - MODIFIED ARMORED COMPRESSION SEAL JOINT SYSTEM.
DWG. NO. JD-24 - ONE-CELL MODULAR JOINT SYSTEM.
DWG. NO. JD-25 - TWO-CELL MODULAR JOINT SYSTEM.

LIST OF BRIDGE JOINT ITEMS USED:

ITEM 566.01M - MODULAR EXP. JOINT SYSTEM ONE-CELL (M)
ITEM 566.02M - MODULAR EXP. JOINT SYSTEM TWO-CELL (M)
ITEM 567.31M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (M)
ITEM 567.32M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (M)
ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (M)
ITEM 567.36M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (M)
ITEM 16567.640001M - REPLACE COMPRESSION SEAL FOR EXISTING BROGE JOINTS (M)
ITEM 580.01M - REMOVAL OF STRUCT. CONC. (CM)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	363	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. ALL BINS	

LEGEND

EXISTING JOINT TYPE:

ACJ = ARMORED COMPRESSION JOINT SYSTEM
MOD = MODULAR JOINT SYSTEM
MAC = MODIFIED ARMORED COMPRESSION SYSTEM (NO HORIZ. ARMORING ANGLE)
ADA = ARMORED DECK ANGLE
SS = STRIP SEAL JOINT
OPEN = OPEN JOINT

PROPOSED JOINT TYPE:

MAC-1 = MOD. ARM./COMP. SEAL JT. SYS. (A-1)
MAC-2 = MOD. ARM./COMP. SEAL JT. SYS. (A-2)
MAC-5 = MOD. ARM./COMP. SEAL JT. SYS. (A-5)
MAC-6 = MOD. ARM./COMP. SEAL JT. SYS. (A-6)
RCS = REPLACE EXISTING COMPRESSION SEAL
RADA = REMOVE ARMOR DECK ANGLE
MOD-1 = MODULAR JT. SYS. (ONE-CELL)
MOD-2 = MODULAR JT. SYS. (TWO-CELL)

JOINT BEND LOCATION:

N = NO BENDS
CRB = CURB LINE
PAV'T = PAVEMENT

GENERAL NOTES:

- ALL MEASUREMENTS SHALL BE FIELD VERIFIED.
- CURB TO CURB LENGTHS ARE MEASURED ALONG C OF JOINT.
- MULTIPLE DIMENSIONS ARE SHOWN LOOKING UP-STATION, LEFT TO RIGHT.
- ALL DIMENSIONS ARE SHOWN IN METERS.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 VARIOUS BRIDGES

BRIDGE JOINT TABLE



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

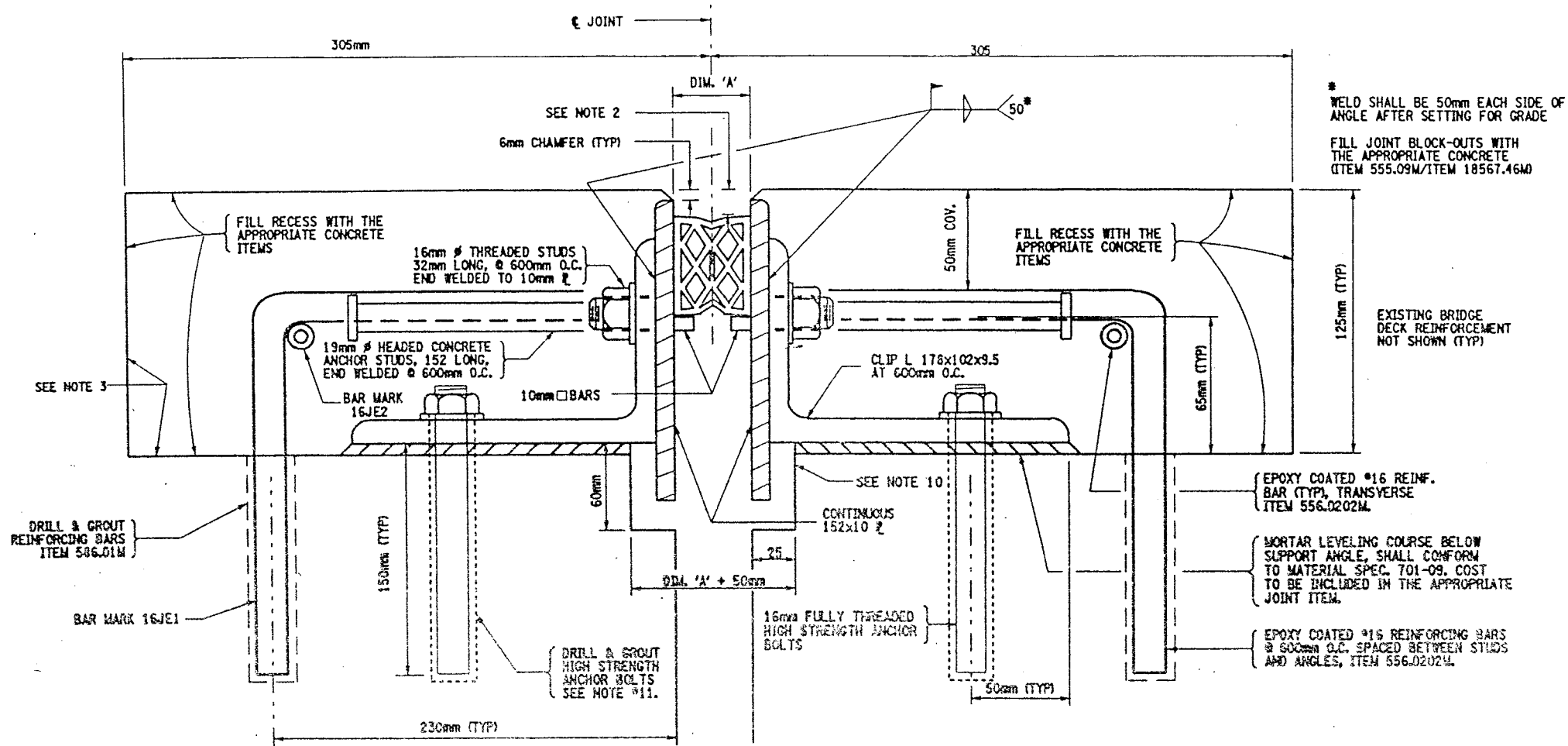
FILENAME	REGION	DATE	DRAWING NO.
305613AJ.JAI	3	10/02	JT-3

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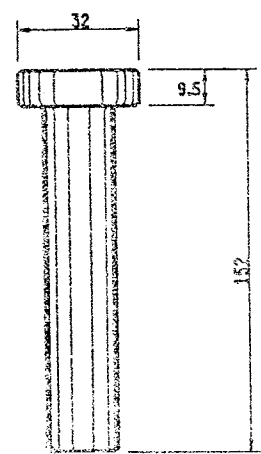
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	365	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. ALL BIN'S	

GENERAL NOTES:

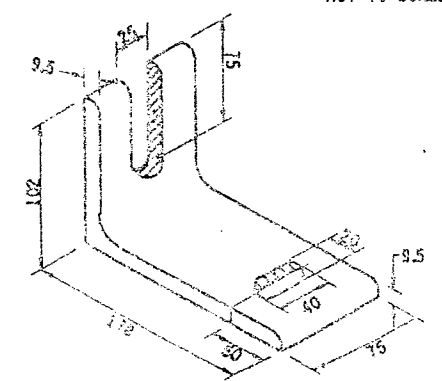
1. THE TEMPERATURE OF THE BRIDGE MUST BE TAKEN ON THE STRUCTURAL STEEL SURFACE TO DETERMINE THE TEMPERATURE CORRECTION FOR THE JOINT OPENINGS.
2. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS NORMAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6mm NOR MORE THAN 19mm BELOW THE TOP OF THE ROADWAY.
3. RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACE AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE, FOR 12 HOURS. NOTE THE USE OF MATERIAL SPEC. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, SEE INSERT IN PROJECT PROPOSAL.
4. A WATER-TIGHT INTEGRITY TEST SHALL BE PERFORMED BY THE CONTRACTOR AT ALL COMPRESSION SEAL JOINT INSTALLATIONS. THE FOLLOWING TEST PARAMETERS SHALL BE INCORPORATED IN THE TEST:
 1. A 15 MINUTE MINIMUM PERIOD OF STANDING WATER, WITH A 25mm MINIMUM DEPTH SHALL BE USED.
 2. IN ADDITION, IN LOCATIONS OF COPED AREAS OF THE SEAL, BENDS, ETC., WATER PRESSURE SHALL BE APPLIED, TO THE SATISFACTION OF THE EIC FOR A 15 MINUTE PERIOD.
 3. LIMITS OF TEST AREA SHALL BE FROM FACE OF CURB TO FACE OF CURB ON THE DECK SURFACE.
5. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THE JOINT IF, IN THE OPINION OF THE ENGINEER, THE INSTALLED JOINT LEAKS WITHIN THE 15 MINUTE TEST PERIOD.
6. PRIOR TO THE START OF WORK AT EACH JOINT, THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR THE SPECIFICS OF THE TESTING, INCLUDING CONTAINMENT OF THE WATER AND THE METHOD TO BE USED FOR ACCESS BY THE E.I.C. TO THE BOTTOM OF THE JOINT BEING TESTED.
7. THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THE TESTING WHICH INCLUDES, BUT IS NOT LIMITED TO:
 1. A CONTAINMENT SYSTEM FOR THE TEST WATER.
 2. PROVISIONS FOR E.I.C. ACCESS TO THE BOTTOM OF THE JOINT. SHALL BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE JOINT ITEMS.
8. THE COST OF ALL LABOR, EQUIPMENT, AND MATERIALS TO INSTALL THE NEW JOINT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT ITEM.
9. MORTAR LEVELING COURSE SHALL CONFORM TO MATERIAL SPECIFICATION 701-09 AND SHALL BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE JOINT ITEM.
10. THE DIMENSIONS OF THE REMOVAL AREA UNDER THE 152x10 PLATES ARE SHOWN TO ALLOW SPACE FOR THE PLATES TO REST FREELY. IF THERE IS ALREADY ADEQUATE SPACE, NO CONCRETE REMOVAL OR REPLACEMENT IS REQUIRED IN THIS AREA.
11. 16mm # ASTM A325M ANCHOR BOLT TO BE DRILLED AND GROUTED IN PLACE IN ACCORDANCE WITH THE REQUIREMENTS OF SUB-SECTION 586-3.02. GROUTING MATERIALS SHALL BE IN ACCORDANCE WITH MATERIALS SUB-SECTION 701-07 ANCHORING MATERIALS-CHEMICALLY CURING. HOLES TO BE DRILLED TO THE DIAMETER AND DEPTH RECOMMENDED BY THE MANUFACTURER OF THE GROUTING MATERIAL. MIN. DEPTH OF 150mm. THE COST OF THE ANCHORS, INCLUDING DRILLING AND GROUTING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT SYSTEM ITEM.
12. IT IS DESIRABLE TO HAVE THE ARMORED JOINT WITH ITS COMPRESSION SEAL ASSEMBLED IN THE SHOP AND DELIVERED TO THE JOB SITE ALL SET FOR INSTALLATION IN ITS PREFORMED RECESS IN THE STRUCTURAL SLAB. IN CASES WHERE THE ARMORED JOINT CANNOT BE ASSEMBLED IN THE SHOP, DUE TO ITS EXCESSIVE LENGTH CAUSING SHIPPING PROBLEMS, THE JOINT SHALL BE SEALED WITH THE COMPRESSION SEAL BEFORE THE STRUCTURE IS OPENED TO TRAFFIC INCLUDING CONSTRUCTION TRAFFIC, AND BEFORE DIS CONTINUING OPERATIONS WHEN WORK IS SUSPENDED DURING THE WINTER.



MODIFIED ARMORED COMPRESSION JOINT DETAIL
FOR INSTALLATION LOCATIONS SEE JOINT TABLE
NOT TO SCALE



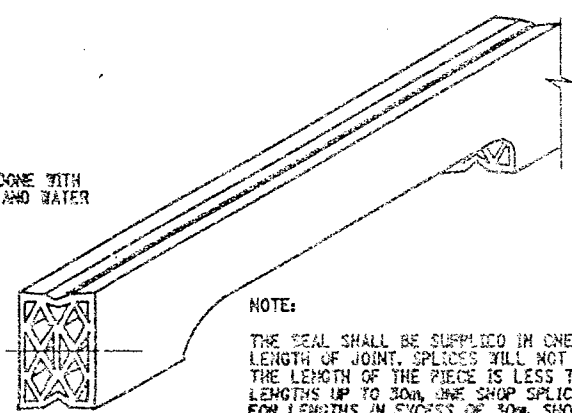
DETAIL OF HEADED CONCRETE ANCHOR STUD
NOT TO SCALE



DETAIL OF CLIP ANGLE
NOT TO SCALE

NOTE:
ALL CUTTING TO BE DONE WITH A COPING SAW, SOAP AND WATER

DO NOT CUT SEAL ABOVE THIS LINE



NOTE:
THE SEAL SHALL BE SUPPLIED IN ONE PIECE FOR THE FULL LENGTH OF JOINT. SPLICES WILL NOT BE PERMITTED WHEN THE LENGTH OF THE PIECE IS LESS THAN 15m. FOR LENGTHS UP TO 30m, ONE SHOP SPLICE WILL BE PERMITTED. FOR LENGTHS IN EXCESS OF 30m, SHOP SPLICES MAY BE PLACED AT APPROXIMATELY 15m INTERVALS.

DETAIL FOR CUTTING SEAL
NOT TO SCALE

EPOXY POLYSULFIDE GROUT NOTE:
CONTRACTOR MAY WITH THE APPROVAL OF THE ENGINEER USE MATERIAL SPECIFICATION 721-03 EPOXY POLYSULFIDE GROUT, AT THE RECESSES, INSTEAD OF THE 12 HOUR CONTINUOUS PREWETTING REQUIREMENTS (PROJECT PROPOSAL). CONTRACTOR MUST ENSURE PROPER CONSTRUCTION PRACTICES ARE FOLLOWED WHEN USING THIS GROUT. THE USE OF EPOXY POLYSULFIDE GROUT SHALL BE AT NO ADDITIONAL COST TO THE STATE.

SEALS (mm)			ARMORED JOINT SYSTEM	
TYPE	NOMINAL WIDTH	DIM. "A" @ 20°C.	TYPE	END CONDITION
1	44	25	A1	Fixed End Only
2	51	30	A2	Exp. up to 18 m
3	64	38	A3	Exp. over 18 m to 23 m
4	76	44	A4	Exp. over 23 m to 27 m
5	89	52	A5	Exp. over 27 m to 38 m
6	102	60	A6	Exp. over 38 m to 46 m

Maximum Skew Limiter Fixed End - No Limit
Exp. End - 45° A2 thru A6

LIST OF ITEMS USED:

- ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)
- ITEM 556.0202M - EPOXY COATED BAR REINF. FOR STRUCT. (E.C.)
- ITEM 567.31M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (U)
- ITEM 567.32M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (U)
- ITEM 567.35M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (U)
- ITEM 567.36M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (U)
- ITEM 18567.46M - ELASTOMERIC CONC. FOR BRIDGE JT. SYSTEMS 60
- ITEM 586.01M - DRILL & GROUT REINF. BARS (mm)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE DATE

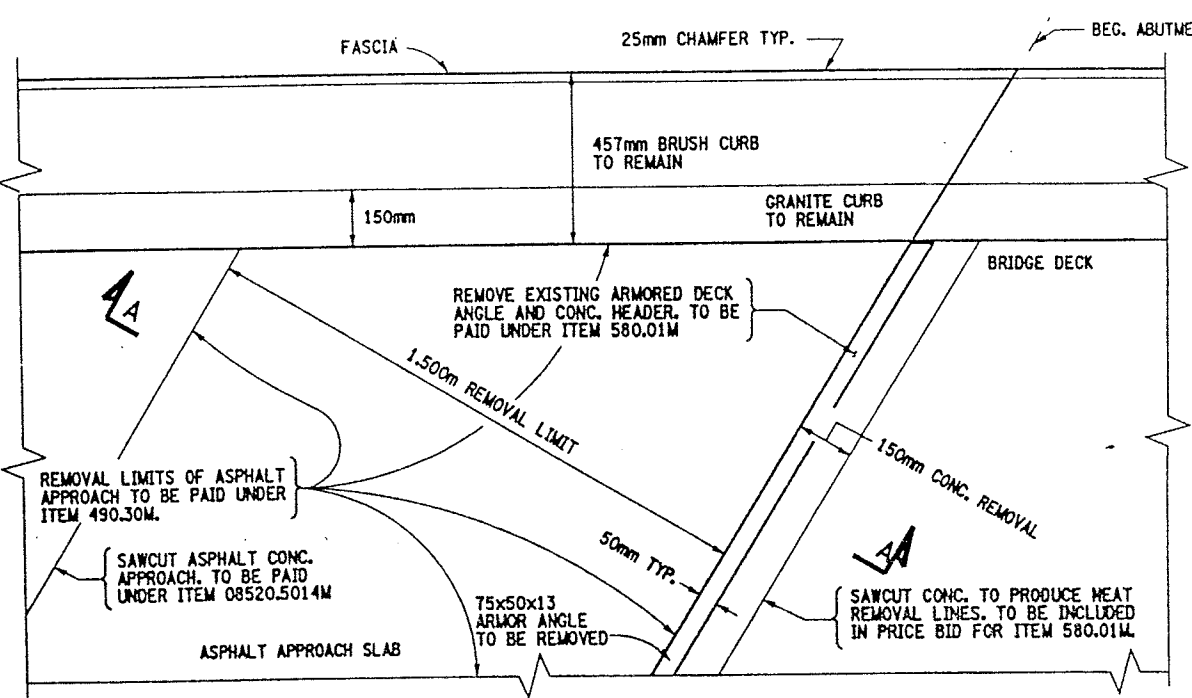
INTERSTATE 481
COMPRESSION SEAL JOINT DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.
305613AJJAI 3 10/02 JD-1

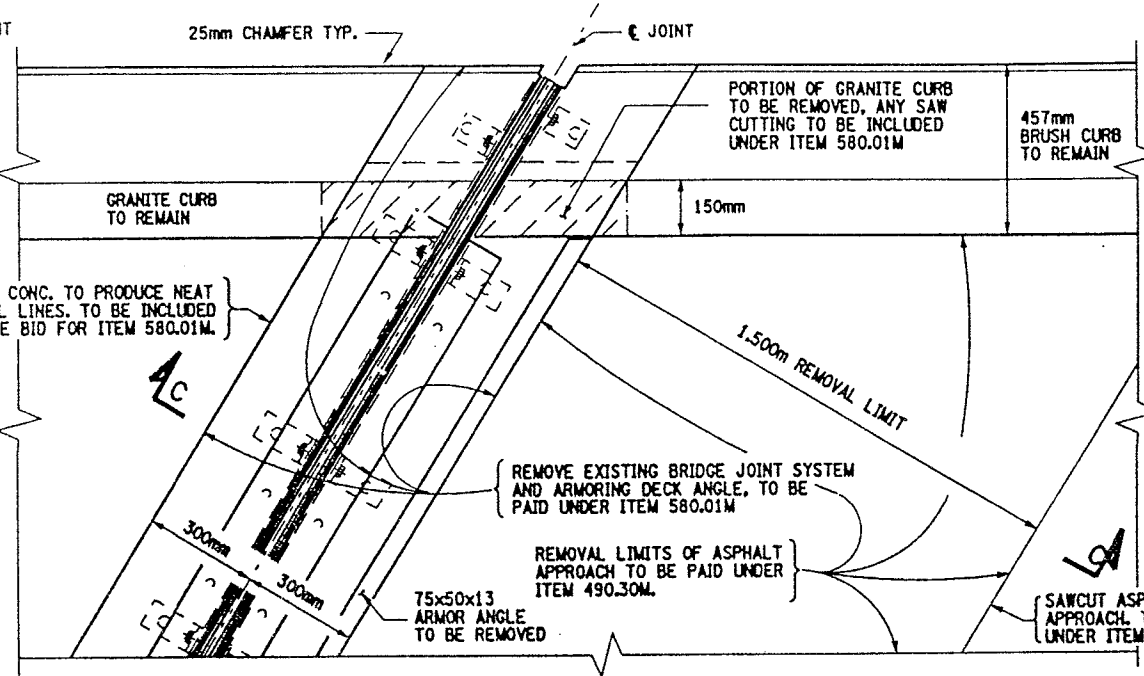
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DESIGNED BY
JOB MANAGER
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	414	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093561 & 1093562		



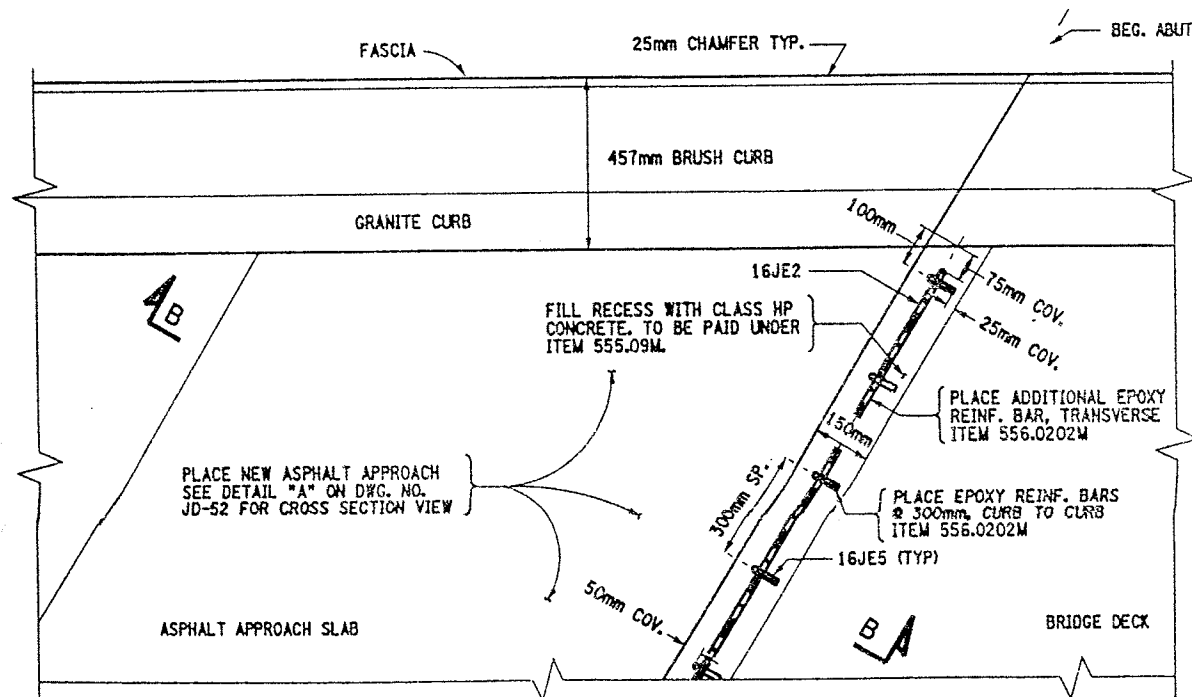
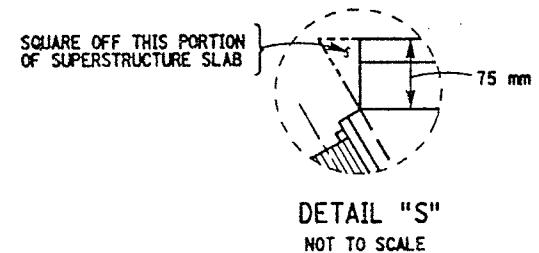
EXISTING BEG. ABUTMENT PLAN VIEW

BIN 1093561 - SOUTH ABUT.
BIN 1093562 - SOUTH ABUT.



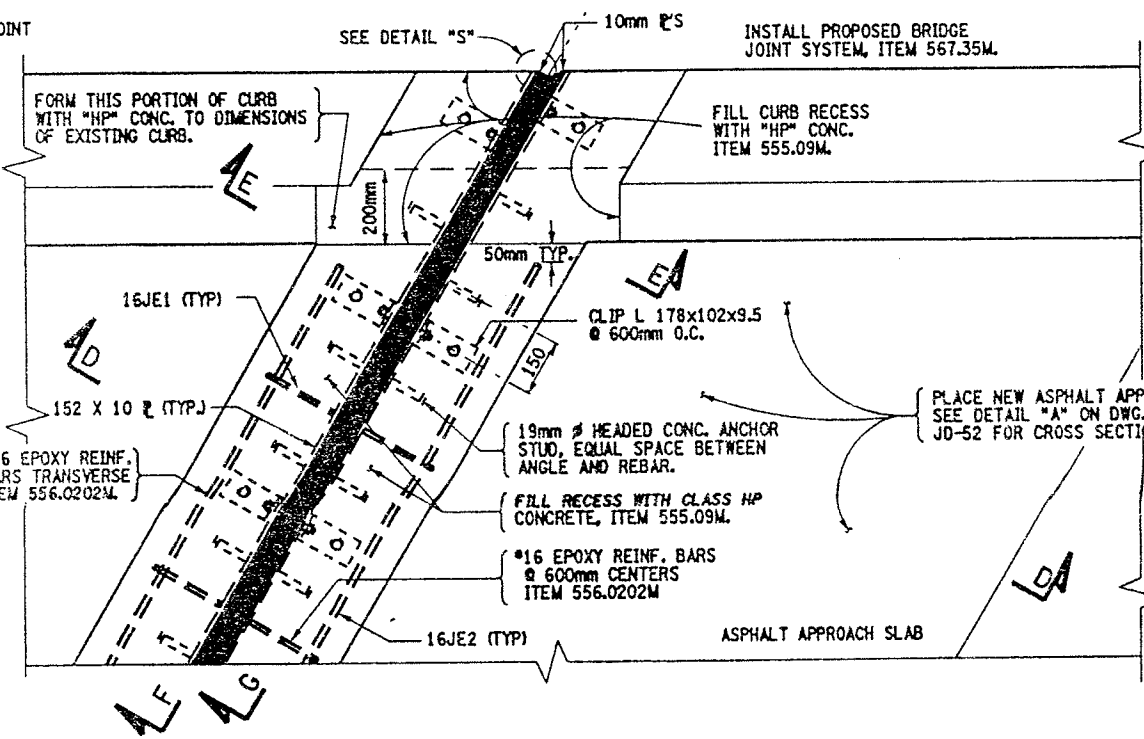
EXISTING END ABUTMENT PLAN VIEW

BIN 1093561 - NORTH ABUT.
BIN 1093562 - NORTH ABUT.



PROPOSED BEG. ABUTMENT PLAN VIEW

BIN 1093561 - SOUTH ABUT.
BIN 1093562 - SOUTH ABUT.



PROPOSED END ABUTMENT PLAN VIEW

BIN 1093561 - NORTH ABUT.
BIN 1093562 - NORTH ABUT.

- NOTES:
1. REMOVAL OF ARMORING DECK ANGLE & ANCHORAGE SHALL BE FROM CURB TO CURB.
 2. FOR SECTION VIEWS SEE DWG. NO. JD-51 AND JD-52.
 3. BOTH STRUCTURES HAVE 10°-51'-46" SKEW.
 4. ACTUAL BRIDGE JOINT BLOCK-OUT DIMENSIONS MAY VARY. REMOVAL LIMITS SHALL BE TO EXISTING BLOCK-OUT LOCATIONS OR AS DIRECTED BY ENGINEER.
 5. LEFT SIDE OF DECK SHOWN, RIGHT SIDE IDENTICAL.
 6. REFER TO DWG. NO. JT-3 FOR ADDITIONAL DETAILS.
 7. SAW CUTTING OF CONCRETE SHALL BE INCLUDED IN PRICE BID FOR ITEM 580.01M.

WORK TO BE DONE:

BIN 1093561 - REMOVE ARMORING DECK ANGLE AT BEG. (SOUTH) ABUTMENT. REPLACE THE EXISTING BRIDGE JOINT AND REMOVE THE ARMORING DECK ANGLE AT END (NORTH) ABUTMENT.

BIN 1093562 - REMOVE ARMORING DECK ANGLE AT BEG. (SOUTH) ABUTMENT. REPLACE THE EXISTING BRIDGE JOINT AND REMOVE THE ARMORING DECK ANGLE AT END (NORTH) ABUTMENT.

- ITEMS USED:
- ITEM 490.30M - MISC. COLD MILLING OF BIT. CONC. (S&W)
 - ITEM 08520.5014M - SAWCUTTING BIT. CONC. (W)
 - ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (C&W)
 - ITEM 556.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUCT. (K&J)
 - ITEM 567.35M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m)
 - ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (C&W)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE _____ DATE _____

INTERSTATE 481 NB & SB
OVER
ROUTE 290
BRIDGE JOINT DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AJ.JAI REGION 3 DATE 10/02 DRAWING NO. JD-50

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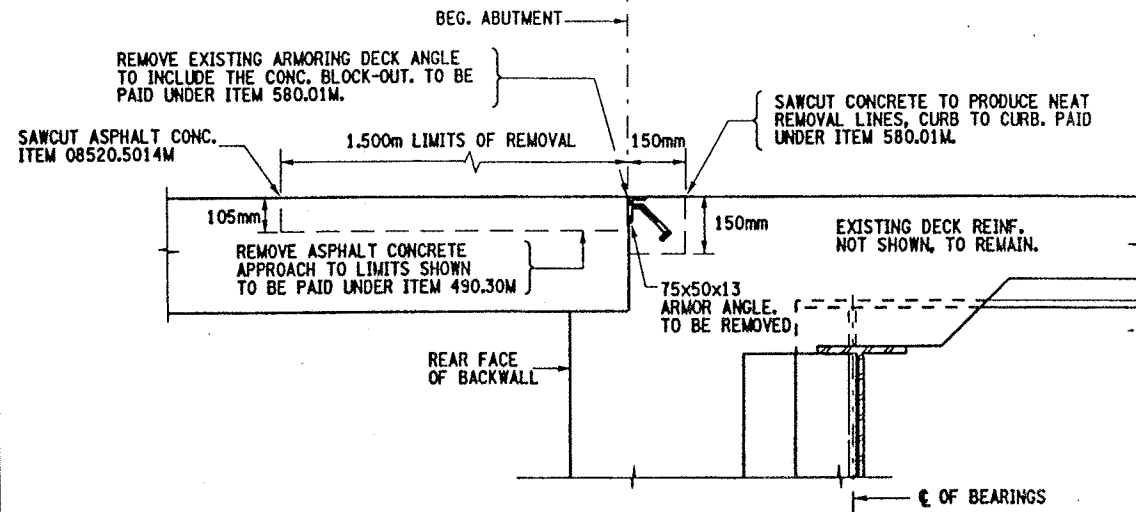
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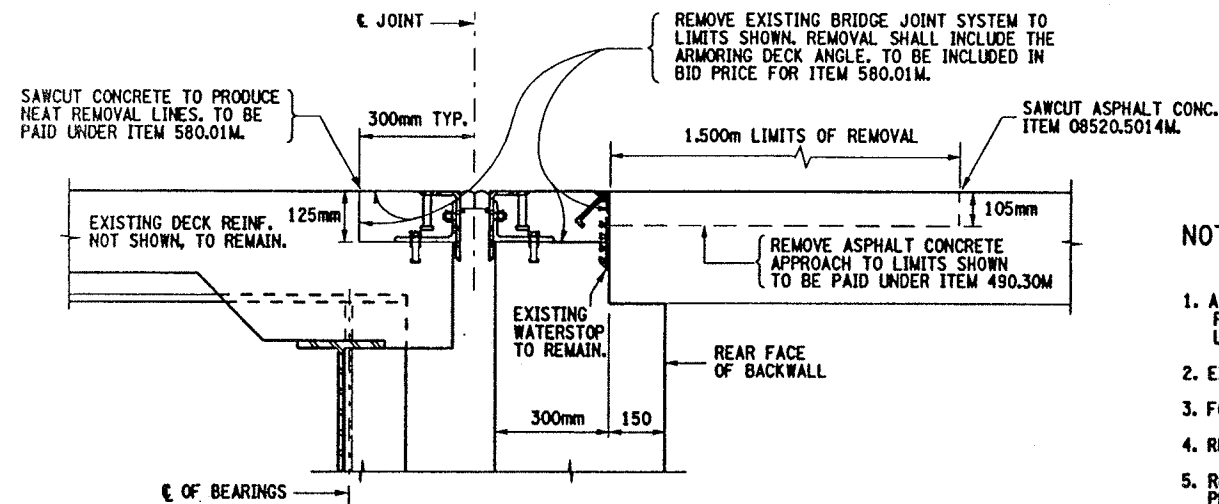
JOB MANAGER

DESIGN SUPERVISOR

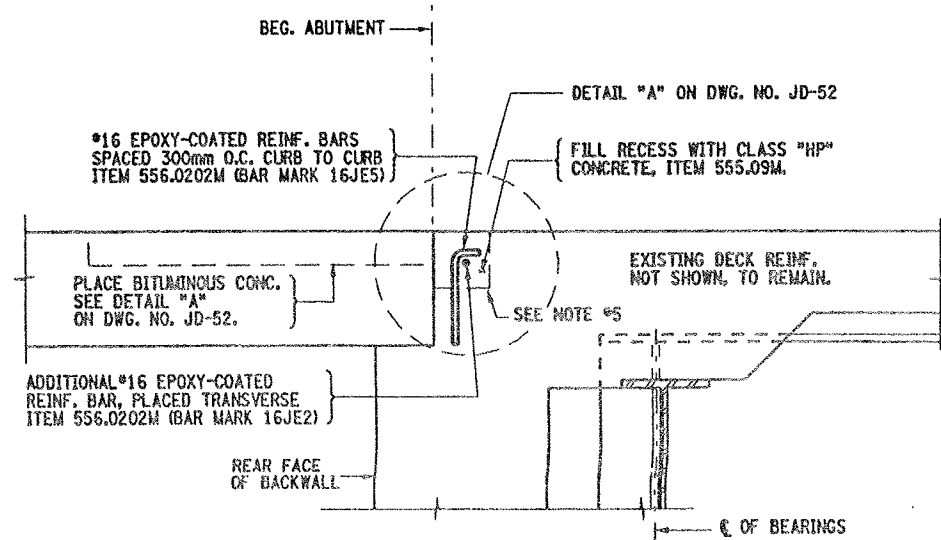
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	415	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093561 & 1093562		



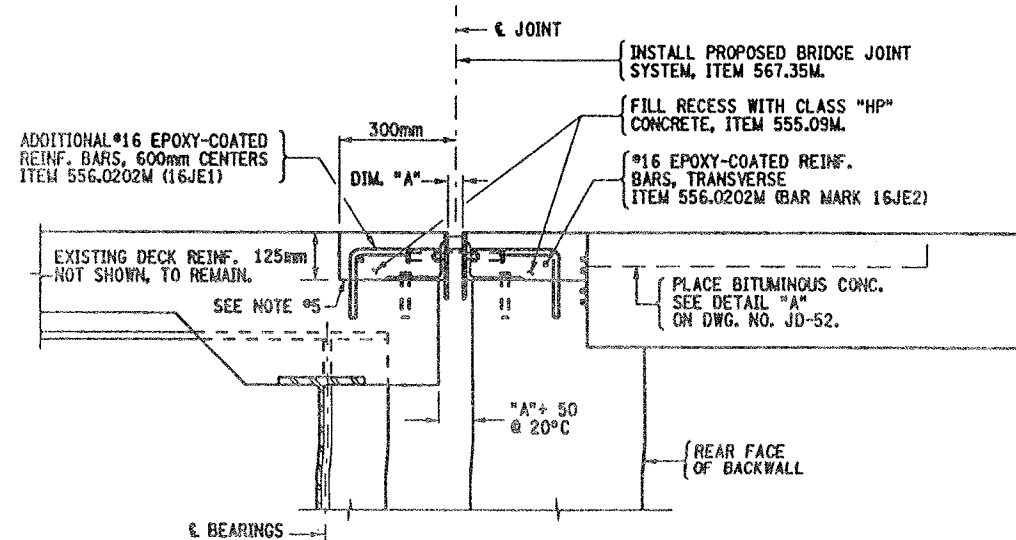
**SECTION A-A
EXISTING BEG. ABUTMENT JOINT**
BIN 1093561 - SOUTH ABUT.
BIN 1093562 - SOUTH ABUT.
NOT TO SCALE



**SECTION C-C
EXISTING END ABUTMENT JOINT**
BIN 1093561 - NORTH ABUT.
BIN 1093562 - NORTH ABUT.
NOT TO SCALE



**SECTION B-B
PROPOSED BEG. ABUTMENT JOINT**
BIN 1093561 - SOUTH ABUT.
BIN 1093562 - SOUTH ABUT.
NOT TO SCALE



**SECTION D-D
PROPOSED END ABUTMENT JOINT**
BIN 1093561 - NORTH ABUT.
BIN 1093562 - NORTH ABUT.
NOT TO SCALE

NOTES:

1. ACTUAL BRIDGE JOINT BLOCK-OUT DIMENSIONS MAY VARY. REMOVAL LIMITS SHALL BE TO EXISTING BLOCK-OUT LOCATIONS, ABOVE.
2. EXISTING WATERSTOPS SHALL REMAIN.
3. FOR CALCULATION OF "A" DIMENSION REFER TO DWG. NO. JD-1.
4. REFER TO DWG. NO. JD-50 FOR PROPOSED PARTIAL PLAN VIEWS.
5. RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION THOROUGHLY WET THE CONCRETE SURFACES AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE FOR 12 HOURS. NOTE, THE USE OF MATERIAL SPECIF. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, (PROJECT PROPOSAL).
6. ALL NOTES AND DETAILS ON DWG. NO. JD-1 SHALL APPLY.

ITEMS USED:

ITEM 490.30M	- MISC. COLD MILLING OF BIT. CONC. (SM)
ITEM 08520.5014M	- SAWCUTTING BIT. CONC. (M)
ITEM 555.09M	- STRUCT. CONCRETE, CLASS "HP" (CM)
ITEM 556.0202M	- EPOXY-COATED BAR REINF. FOR STRUCT. (KQ)
ITEM 567.35M	- MOD. ARMORED JOINT SYSTEM W/COMP. SEAL TYPE A5 (M)
ITEM 580.01M	- REMOVAL OF STRUCT. CONCRETE (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 NB & SB
OVER
ROUTE 290
BRIDGE JOINT DETAILS

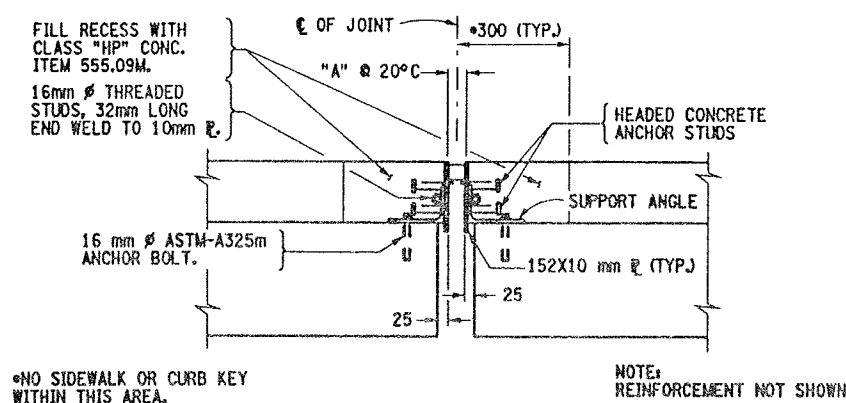


STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AJJA1	3	10/02	JD-51

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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	416	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093561 & 1093562		

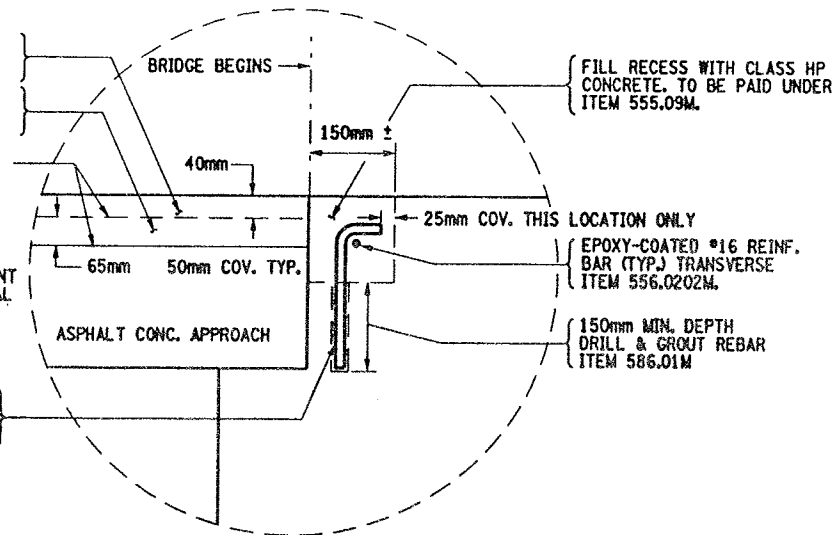


SECTION E-E
PROPOSED ABUTMENT JOINT
NOT TO SCALE

PLACE ASPHALT CONCRETE, TOP
SUPERPAVE HMA, ITEM 402.128201M
PLACE ASPHALT CONCRETE, BINDER
SUPERPAVE HMA, ITEM 402.258901M
PLACE TACK COAT, ITEM 407.01M.
SEE NOTES *6 & *7, THIS SHEET.

PROPOSED SOUTH ABUTMENT TREATMENT
SHOWN, THE HMA ITEMS ARE IDENTICAL
FOR THE NORTH ABUTMENT.

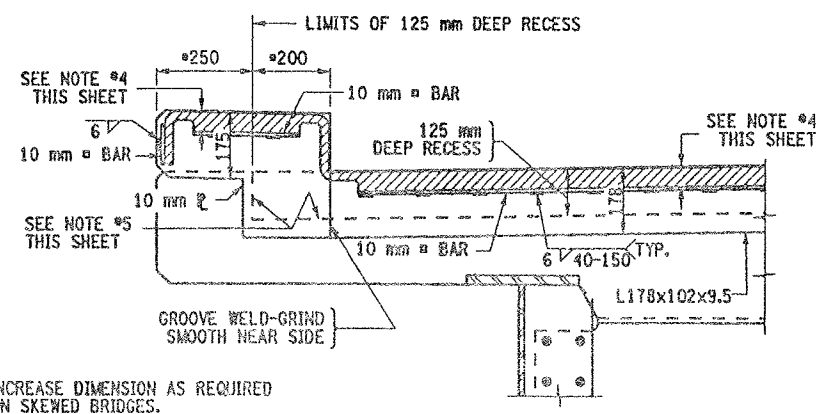
*16 EPOXY-COATED ANCHORAGE
REINF. BARS, SPACED 300mm TYP.
CURB TO CURB, ITEM 556.0202M



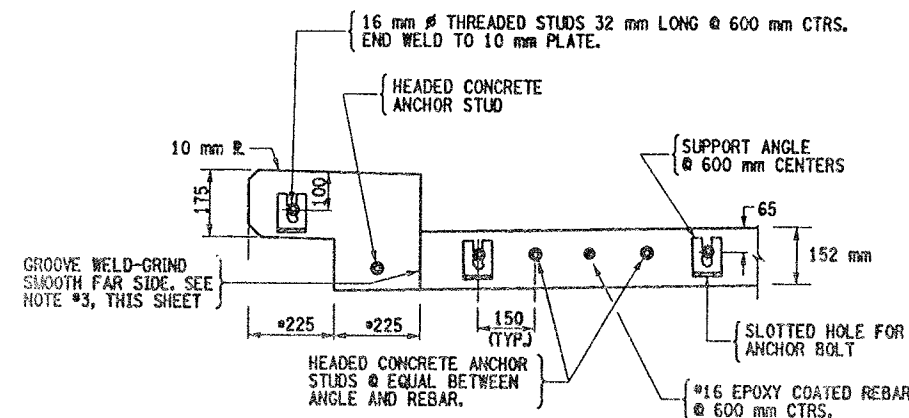
DETAIL "A"
NOT TO SCALE

NOTES:

1. ACTUAL BRIDGE JOINT BLOCK-OUT DIMENSIONS MAY VARY. REMOVAL LIMITS SHALL BE TO EXISTING BLOCK-OUT LOCATIONS, A08E.
2. REFER TO DWG. NO. JD-50 FOR PARTIAL PLAN VIEWS.
3. ALL WELDS SHALL BE GROUND SMOOTH TO THE SATISFACTION OF THE ENGINEER, ON SEAL CONTACT SIDE OF EDGE BEAM.
4. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS NOMINAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6 mm NOR MORE THAN 19 mm BELOW THE TOP OF ROADWAY.
5. RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACES AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE FOR 12 HOURS. NOTE, THE USE OF MATERIAL SPECIF. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, PROJECT PROPOSAL.
6. ALL SURFACES OF HMA SHALL BE CLEANED AND TACK-COATED PRIOR TO HMA PLACEMENT. ALL COSTS SHALL BE INCLUDED WITHIN THE UNIT PRICE BID FOR ITEM 407.01M.
7. ANY USE OF SUPERPAVE HMA ITEMS SHALL INCLUDE THE APPROPRIATE PLANT PRODUCTION QUALITY ADJUSTMENT ITEMS.



PROPOSED ABUTMENT JOINT
SECTION F-F (BRUSH CURB)
NOT TO SCALE



PROPOSED ABUTMENT JOINT
SECTION G-G (BRUSH CURB)
(ONLY THE STEEL SHOWN)
NOT TO SCALE

ITEMS USED:

ITEM 402.128201M	- SUPERPAVE HMA F2, 12.5mm (MT)
ITEM 402.128211M	- PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.128201M (QU)
ITEM 402.258901M	- SUPERPAVE HMA F9, 25.0mm (MT)
ITEM 402.258911M	- PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.258901M (QU)
ITEM 407.01M	- TACK COAT (L)
ITEM 556.0202M	- EPOXY-COATED BAR REINF. FOR STRUCT. (KQ)
ITEM 555.09M	- STRUCT. CONCRETE, CLASS "HP" (CM)
ITEM 586.01M	- DRILL & GROUT REINF. BARS (mm)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 NB & SB OVER ROUTE 290 BRIDGE JOINT DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME	REGION	DATE	DRAWING NO.
305613AJ.JA1	3	10/02	JD-52

**ATHENICA**

ENVIRONMENTAL SERVICES INC.

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**BULK (NOB) ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY
AND TRANSMISSION ELECTRON MICROSCOPY**

3

CLIENT: NYS DOT, Region 3**LABORATORY ID #:** 04-04-109**DATES OF ANALYSIS:** 04/29/04**PROJECT:** Bin # 1093561**ANALYT. METHODOLOGIES:** ELAP 198.1, ELAP 198.4**DATE OF REPORT:** 04/30/04**LABORATORY RESULTS**

CLIENT #	LAB. ID #	LOCATION	%ORG	%ASI	%AII	PLM RESULTS	TYPE OF ASBEST.	TEM RESULTS	TYPE OF ASBEST.	POSIT. / NEGAT.
01	04-04-109-01	Steel paint coat G-5 bottom flange @4meters from end bearing	41.93	9.49	48.58	ND	NA	ND	NA	Negat.
02	04-04-109-02	Steel paint coat G-3 web @ 0.5 meters from end bearing	49.89	6.14	43.97	ND	NA	ND	NA	Negat.
03	04-04-109-03	Steel paint coat G-2 bearing end abutment	41.92	12.96	45.12	ND	NA	ND	NA	Negat.

ANALYST

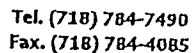
E. Sioukri

LABORATORY DIRECTOR

Spiro Dongaris

LABORATORY CERTIFICATION NUMBERS: NVLAP 101958, ELAP 10955

- Athenica Environmental Services Inc. (AES), is responsible only for information pertaining to samples taken by its employees.
- Samples will be stored for sixty (60) days. AES Inc., should be notified within this time frame for a true duplicate analysis.
- The report relates only to items tested. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. Test reports may not be reproduced except in full and with prior approval of AES Inc.
- The liability of Athenica Environmental Services Inc. with respect to the services charged, shall in no event exceed the amount of the invoice.



333 E. WASHINGTON ST. SYRACUSE, N.Y. 13202

BATCH #: 024-04-109

IVLAP# 101958 ELAP# 10955

TIME :

Asbestos Sampling Survey

Location:

BIN 1-09356-1

Interstate Route 481 South Bound over Route 290

Prepared for:

New York State

Department of Transportation

PIN 3804.09.101

LaBella Project No. 97132

May, 1999

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Figures and Table

I. Project Summary

In accordance with conditions of Term Agreement D010010, LaBella Associates, P.C. conducted an asbestos sampling survey of the Interstate Route 481 South Bound bridge over Route 290. Based on laboratory analyses of bulk samples collected, the following material was determined to contain asbestos:

BIN 1-09356-1 Interstate Route 481 South Bound over Route 290

Type of Material	Estimated Amount
Sheet Packing	8.1 Square Meters

II. Site Description

The Site is located in Onondaga County, New York. For the purpose of this report, the Site consists of the Interstate Route 481 South Bound bridge over Route 290 (See attached FIGURE 1 - Site Location Map).

III. Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 3 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints which might affect the removal of the ACM were identified and reported.
- C. Bulk samples of suspected ACM were collected during the site inspection of the subject structure. Samples were taken from each homogeneous area that may contain ACM.
- D. Samples were submitted for analysis. Preliminary PLM analyses of NOB materials were performed by LaBella Laboratories, a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. TEM analyses of NOB materials, if necessary, were performed by New York Testing Laboratories, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.
- F. A drawing of the structure at the Site was created, in order to show sample locations and the approximate locations and amounts of confirmed ACM observed in accessible locations.

Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by LaBella Associates to determine the presence of underground utilities on or in the immediate vicinity of the Site. Actual sample locations are shown in the attached FIGURE 2. Results of bulk sample analyses are tabulated in the attached TABLE.

IV. Results

BIN 1-09356-1 Interstate Route 481 South Bound over Route 290

Sheet Packing

Asbestos-containing sheet packing is located between the tops of the abutments and the deck slab at both ends of the bridge. Most of this material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations.

It is estimated that the total amount of this asbestos-containing sheet packing material on the bridge is approximately 8.1 square meters. This estimate is based on field measurements taken at the time of the site visit.

The approximate locations of this asbestos-containing sheet packing are shown in FIGURE 2.

Certification

LaBella Associates, P.C. certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this investigation.